

A1-F18AC-580-300

1 DECEMBER 1990

CHANGE 4 - 1 JUNE 2002

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB

MAINTENANCE STATUS DISPLAY AND RECORDING SYSTEM

**NAVY MODEL
F/A-18A AND F/A-18B
161353 AND UP**

N68936-01-D-0007

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PUBLISHED BY DIRECTION OF COMMANDER, NAVAL AIR SYSTEMS COMMAND

0801LP1018027

NATEC ELECTRONIC MANUAL

NUMERICAL INDEX OF EFFECTIVE WORK PACKAGES/PAGES

List of Current Changes

Original 0 1 Dec 1990 Change 3 1 Dec 2000 Change 4 1 Jun 2002
 Change 1 1 Dec 1991 (Incorp of IRAC 1)
 Change 2 15 Jan 1996

Only those work packages/pages assigned to the manual are listed in this index. Insert Change 4, dated 1 June 2002. Dispose of superseded and deleted work packages/pages. Superseded and deleted classified work packages/pages shall be destroyed in accordance with applicable regulations. If changed pages are issued to a work package, insert the changed pages in the applicable work package. The portion of text affected in a changed or revised work package is indicated by change bars or the change symbol “R” in the outer margin of each column of text. Changes to illustrations are indicated by pointing hands or change bars, as applicable.

| WP Number | Title | WP Number | Title |
|--------------|--|--------------|--|
| Title | | 003 00 | Signal Data Converter or Signal Data Converter Mounting Base |
| Page A | Numerical Index of Effective Work Packages/Pages | 004 00 | Signal Data Recorder or Magnetic Tape Cartridge |
| TPDR-1 | List of Technical Publications Deficiency Reports Incorporated | 005 00 | Digital Display Indicator |
| 001 00 | Alphabetical Index | 006 00 | Strain Gages |
| 002 00 | Introduction | 007 00 | Mission Data Loader or Mission Data Loader Mount |

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| 1 - 6 | 4 | 6 Blank | 1 | | | | |

LIST OF TECHNICAL PUBLICATION DEFICIENCY REPORTS INCORPORATED

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

MAINTENANCE STATUS DISPLAY AND RECORDING SYSTEM

This WP supersedes TPDR WP, dated 1 December 2000.

1. The TPDRs listed below have been incorporated in this issue.

| IDENTIFICATION NUMBER/ QA SEQUENCE NUMBER | LOCATION |
|--|----------|
| NONE | |

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ORGANIZATIONAL MAINTENANCE
SYSTEM MAINTENANCE WITH IPB
MAINTENANCE STATUS DISPLAY AND RECORDING SYSTEM

This WP supersedes WP001 00, dated 1 December 1991.

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| Technical Directives | 002 00 |
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| Signal Data Converter CV-3493/ASM-612 (85A-N002) or Signal Data Converter Mounting Base (85MTN502) | 003 00 |
| Signal Data Recorder RO-508/ASM-612 (85A-F001) or Magnetic Tape Cartridge MX-9972/ASM-612 (85A-F501) | 004 00 |
| Strain Gages Part No. DTD2684 | 006 00 |

INTRODUCTION**ORGANIZATIONAL MAINTENANCE****SYSTEM****MAINTENANCE WITH IPB****MAINTENANCE STATUS DISPLAY AND RECORDING SYSTEM**

This WP supersedes WP002 00, dated 1 December 2000.

1. PURPOSE.

2. This manual provides the technician with the data required for removing, clearing, inspecting, repairing, installing, adjusting, and aligning system components. Illustrated parts breakdown and extreme environmental maintenance data are provided where applicable.

3. REQUISITION AND AUTOMATIC DISTRIBUTION OF NAVAIR TECHNICAL MANUALS.

4. Procedures to be used by Naval activities and other Department of Defense activities requiring NAVAIR technical manuals are defined in NAVAIR 00-25-100 and NAVAIRINST 5605.5A. To automatically receive future changes and revisions to NAVAIR technical manuals, an activity must be established on the Automatic Distribution Requirements List (ADRL) maintained by the Naval Air Technical Data and Engineering Service Command (NATEC). To become established on the ADRL, notify your activity central technical publications librarian. If your activity does not have a library, you may establish your automatic distribution by contacting the Commanding Officer, NATEC, Attn: Distribution, NAS North Island, Bldg. 90, P. O. Box 357031, San Diego, CA 92135-7031. Annual reconfirmation of these requirements are necessary to remain on automatic distribution. Please use your NATEC assigned account number whenever referring to automatic distribution requirements.

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For assistance with a MILSTRIP requisition, contact the Naval Inventory Control Point (NAVICP) Publications and Forms Customer Service at DSN 442-2626 or (215) 697-2626, Monday through Friday, 0700 to 1600 Eastern Time.

6. MANUAL ISSUE DATE.

7. The date on the title page is the copy freeze date. No additions, deletions, or changes are made after the manual issue date except last minute safety of flight or required maintenance changes. Data collected after the manual issue date will be included in later changes or revisions of the manual.

8. EFFECTIVITIES.

9. Effectivity notes on manual title pages, work package title pages, and within a work package indicate the aircraft or software program to which the data applies. If no effectivity note appears on the work package title page, the work package has the same effectivity as shown on the manual title page. The effectivity notes may use:

NOTE

Aircraft with model designator F/A-18B are the same type and model as TF/A-18A.

- a. Type, model, and series
- b. Bureau number (tail number)
- c. Combination of type, model, series, and bureau numbers
- d. Part number or serial number
- e. Technical directive number

f. Configuration/identification number

10. The table below shows examples of effectivity notes and their meanings:

Effectivity Note Examples

| Effectivity Note | Definition |
|--|--|
| 160777 AND UP | Applicable to all F/A-18A, F/A-18B, F/A-18C and F/A-18D for bureau numbers listed. |
| F/A-18A, F/A-18B | Applicable to all F/A-18A and F/A-18B. |
| F/A-18C, F/A-18D | Applicable to all F/A-18C and F/A-18D. |
| F/A-18A | Applicable to all F/A-18A, but not F/A-18B, F/A-18C and F/A-18D. |
| F/A-18B | Applicable to all F/A-18B, but not F/A-18A, F/A-18C, and F/A-18D. |
| F/A-18C | Applicable to all F/A-18C, but not F/A-18A, F/A-18B, and F/A-18D. |
| F/A-18D | Applicable to all F/A-18D, but not F/A-18A, F/A-18B, and F/A-18C. |
| F/A-18A, F/A-18C | Applicable to all F/A-18A and F/A-18C, but not to F/A-18B and F/A-18D. |
| F/A-18B, F/A-18D | Applicable to all F/A-18B and F/A-18D, but not to F/A-18A and F/A-18C. |
| F/A-18A 160775, 160777 THRU 160782 | Only applicable to some bureau numbers of F/A-18A. Not applicable to any F/A-18B, even if an F/A-18B bureau number is within the numbers listed. |
| F/A-18C 163427, 163430 THRU 163456 | Only applicable to some bureau numbers of F/A-18C. Not applicable to any F/A-18D, even if an F/A-18D bureau number is within the numbers listed. |
| F/A-18B 160784 AND UP | Only applicable to some bureau numbers of F/A-18B. Not applicable to any F/A-18A, even if an F/A-18A bureau number is within the numbers listed. |
| F/A-18D 163434 THRU 163457 | Only applicable to some bureau numbers of F/A-18D. Not applicable to any F/A-18C, even if an F/A-18C bureau number is within the numbers listed. |
| 160775 THRU 160785 BEFORE F/A-18 AFC 772 | Applicable to F/A-18A and F/A-18B for bureau numbers listed, before modification by technical directive. |

Effectivity Note Examples (Continued)

| Effectivity Note | Definition |
|--|--|
| 161213 AND UP; ALSO 160775 THRU 160785 AFTER F/A-18 AFC 772 | Applicable to aircraft modified during production; also applicable when affected aircraft have been modified by technical directive. |
| 160775 THRU 160785; WHEN NO. 2 CONTROL PANEL P/N XXXX-X IS INSTALLED | Applicable to F/A-18A and F/A-18B for bureau numbers listed if panel P/N XXXX-X is installed. (Configuration before AVC) |
| 161213 AND UP; ALSO 160775 THRU 160785; WHEN NO. 2 CONTROL PANEL P/N XXXX-Y (AVC-102) IS INSTALLED | Applicable to aircraft modified during production; also applicable to aircraft components modified to the production configuration by technical directive. (Configuration after AVC) |
| P/N MBEU65101-9, MBEU65101-10 & MBEU65105-3 | Applicable to assemblies which are interchangeable between aircraft. |
| ENGINE NO. 215101 THRU 215109 | Applicable to assemblies which are interchangeable between aircraft, but configurations can not be identified by part number. |
| CONFIG/IDENT NUMBER 84A | The CONFIG/IDENT Number is the program load identification number which identifies the software program loaded in specific programmable units. Refer to A1-F18AC-SCM-000 for CONFIG/IDENT Number tables. |

11. TECHNICAL DIRECTIVES.

12. Technical directives are documents which direct the accomplishment, and recording of a retrofit configuration or inspection to delivered aircraft, or aircraft components.

13. AIRFRAME CHANGE (AFC) AND AIRBORNE TACTICAL SOFTWARE CHANGE (ASC). Technical directives which change configuration of aircraft structure or equipment installation, i.e. AFC, will list aircraft bureau numbers in effectivity notes and show before and after the AFC. Technical directives which change configuration of operational flight programs (OFP), i.e. ASC, will list the OFP CONFIG/IDENT NUMBER in effectivity notes and show the latest two authorized OFP programs. See AFC and ASC effectivity examples in Effectivity Note Example Table.

14. AIRCRAFT COMPONENT CHANGES. Technical directives which change configuration of aircraft components, i.e. AAC, ACC, AVG, AYC, and PPC will list part numbers in the effectivities. See AVC effectivity examples in Effectivity Note Example table.

15. HISTORICAL RECORD/RECORD OF APPLICABLE TECHNICAL DIRECTIVES.

16. The technical directives affecting this manual are listed in the Record of Applicable Technical Directives of each affected work package. Because an ASC directs all aircraft be modified within 30 days, ASC's are not listed. When all affected aircraft are modified, the before configuration is removed from the manual, and the technical directive entry is removed from the each affected work package and entered in the Historical Record of Applicable Technical Directives.

17. TECHNICAL PUBLICATIONS DEFICIENCY REPORT (TPDR).

18. The TPDR (OPNAV FORM 4790/66) is the form for reporting errors and suspected omissions in the technical manuals. Reporting procedures are in OPNAVINST 4790.2 SERIES.

19. QUALITY ASSURANCE PROCEDURES.

20. Procedures or parts of procedures which require quality assurance inspection are identified by the letters (QA) after the applicable steps. When (QA) is assigned to a step or a heading which is immediately followed by substeps, the inspection requirement is applicable to all substeps.

21. When doing maintenance in any area, a visual inspection of the area will be made for cracks, corrosion and security of component installation before securing the area for flight.

22. ILLUSTRATED PARTS BREAKDOWN.

23. Each illustrated parts breakdown (IPB) in this manual has a parts list and illustration for the requisition, storage, authority for use and identification of parts. The illustration is integrated with, and supports, both the maintenance procedure and the parts list within each work package.

24. **PART NUMBER COLUMN.** Footnote symbols in the part number column are defined following the last part listed in each parts list (also see converted part numbers, this WP).

25. **INDENTION.** The first entry in the description column of each parts list is the figure title. This figure title identifies the parts list with the related maintenance procedure and is shown in the first indent. All parts data required to support the specific maintenance procedure is below the figure title in the second indent.

26. **COMMON NAMES.** The official nomenclature in the description column may not be the name commonly used for an item. If different from the official nomenclature, the common name is shown in parentheses in the description column immediately following the official nomenclature.

27. **COMMERCIAL AND GOVERNMENT ENTITY CODES.** Entity code or manufacturer's name and address are shown in the Description column in parentheses after the nomenclature for the item. These codes are per the Commercial and Government Entity (CAGE) Handbook H4/H8 Series. No code indicates the item is a government standard part.

28. **ATTACHING PARTS.** Attaching parts are identified by (AP) after the nomenclature of the item in the description column. Attaching parts are listed immediately following the part they attach.

29. **SPECIAL HANDLING.** Items requiring special handling such as liquid oxygen components, magnetic control items or on-board liquid oxygen generating system (OBOGS) are identified by the acronym LOX for liquid oxygen, MAG for magnetic control items and OXYGEN for on-board liquid oxygen generating system (OBOGS) in the Description column, at the extreme right side.

30. **CONVERTED PART NUMBERS.** Some part numbers appear in the Part Number column which are different than the manufacturer's part number. These are converted part numbers. The unconverted manufacturer's part number is shown in the Description column following the manufacturer's code. Always use the part number in the Part Number column when ordering parts. If an item is not available under the listing in the Part Number column, it may be ordered using the unconverted part number found in the Description column or by using the number found on the part. Examples of special characters as they may appear in the Part Number and Description columns are shown below:

| Part Number Column | Description Column |
|--------------------|-----------------------|
| PORM | ± (Plus or Minus) |
| DEG | ° (Degree) |
| E | e (Lower case letter) |
| 2 | II (Roman Numeral) |
| 0.001 | .001 (Decimal) |

31. **SUPERSEDED PARTS.** Superseded part numbers have been removed from the Part Number column and placed in the Description column of the superseding part (for example - supersedes 74A582090-1003). This indicates that the superseded part is usable if available through salvage, but should not be requisitioned or made.

32. **REDESIGNED PARTS.** When the design of a part is changed to the extent that interchangeability is affected, the new part number will state in the description column, Replaces 74AXXXXX-XXXX. If the old part has continued application it will remain in the part number column following the new part. Usable on codes will be used to show usability. In addition the explanatory notes ("Use until exhausted") for procureable parts and (Replaced by XXXXX) for nonprocureable parts will be in the description column of the old part.

33. **NEXT HIGHER ASSEMBLY.** Next higher assembly (NHA) data is not shown using indention. Next higher procurable assembly (NHPA) data is shown for part numbers that have a procurable NHA. The NHPA and its assigned Source, Maintenance and Recoverability (SM&R) code are in parentheses as the last entry in the Description column. Requisition the NHPA when the part listed in the Part Number column is not available from supply. The components of assemblies that require disassembly during removal from aircraft, are footnoted in the part number column.

34. UNITS PER ASSEMBLY COLUMN (UPA).

This column lists the total number of each part required per assembly or subassembly and are not necessarily the total number used in the end item of equipment. The letters AR (As Required) are used for items such as shims when the requirement may vary.

35. USABLE-ON CODES. Applicable usable-on codes are identified on the final sheet of each parts list. No entry in the Use On column indicates parts are applicable to all configurations supported by this parts list.

36. ALTERNATE OR EQUIVALENT PARTS. An asterisk (*), in the Use On column, identifies alternate parts or equivalent parts that are interchangeable. When a letter code is followed by an asterisk in the Use On column, only the parts with the same letter code are interchangeable. An alternate part may be used when preferred part is not available. The asterisk is omitted for the preferred part(s). Equivalent parts are fully interchangeable. No equivalent part is preferred over another. All equivalent parts are identified by asterisks.

37. SOURCE, MAINTENANCE AND RECOVERABILITY (SM&R) CODE COLUMN. The codes used in this column are assigned per NAVAIRINST 4423.3 SERIES and NAVSUPINST 4423.14 SERIES which contain definitions. A dash (-) is shown in the SM&R code column when no code has been assigned. The Aviation Supply Office P2300 series publication is to be used for the most current SM&R Code assignment information if doubt exists as to the validity of any SM&R Code listed in an IPB. Refer to figure 1 for SM&R code explanations.

38. PARTS LIST INDEX MANUAL, A1-F18AC-IPB-450. This manual has a numerical index of part numbers and a reference designation index for use with aircraft organizational maintenance manuals. When reference designations or part numbers are known, the index locates specific maintenance instructions and parts data.

39. NAVY (AN) STANDARD/COMMON NAME NOMENCLATURE.

40. When an item has both Navy (AN) standard and common name nomenclature assigned, the common name nomenclature will be used in text and on illustrations. Full Navy (AN) standard nomenclature will be used in the Illustrated Parts Breakdown (IPB).

| SOURCE (D012) | | | | MAINTENANCE | | | |
|---------------|-------------------------|--------------|--|--------------|---|----------------|--|
| 1st POSITION | | 2nd POSITION | | USE (D013A) | | REPAIR (D013B) | |
| 1st POSITION | | 2nd POSITION | | 3rd POSITION | | 4th POSITION | |
| P | PROCURE | A | REPLENISH | O | REPLACE OR USE AT ORGANIZATIONAL LEVEL | Z | NO REPAIR (CONSUMABLE) |
| | | B | INSURANCE | | | | |
| | | C | CURE-DATED | | | | |
| | | D | INITIAL | F | REPLACE OR USE AT IMA LEVEL | B | RECONDITION BY ADJUSTMENT, CALIBRATION, LUBRICATION, PLATING, ETC. |
| | | E | END ITEM GSE/STOCKED | H | | | |
| | | F | GSE/NOT STOCKED | G | | | |
| K | REPAIR KIT COMPONENT | F | ORG/IMA | L | REPLACE OR USE AT SPECIALIZED IMA | O | REPAIR AT ORGANIZATIONAL LEVEL |
| | | D | DEPOT | | | | |
| | | B | BOTH KITS | | | | |
| M | MANUFACTURE | O | ORGANIZATIONAL | D | REPLACE OR USE AT DEPOT | F | REPAIR AT IMA LEVEL |
| A | ASSEMBLE | F | AFLOAT (INTERMEDIATE) | | | H | |
| | | H | ASHORE (INTERMEDIATE) | | | G | |
| | | G | BOTH (INTERMEDIATE) | | | | |
| X | MISC | D | DEPOT | Z | NOT REQUIRED THIS APPLICATION | L | REPAIR AT SPECIALIZED IMA |
| | | A | REQUEST NHA | | | D | REPAIR AT DEPOT OR COMMERCIAL |
| | | B | OBTAIN FROM SALVAGE OR ONE TIME BUY | | | | |
| | | C | DIAGRAMS-SCHEMATICS, INSTALL DWGS | | | | |

| RECOVERABILITY (D013C) | | SERVICE OPTION (D012A) | |
|------------------------|---|------------------------|--|
| 5th POSITION | | 6th POSITION | |
| O | REPAIRABLE ITEM. CONDEMN AT ORGANIZATIONAL LEVEL. | 1 2 3 | APPLIES TO ENGINES ONLY. IDENTIFIES THE HIGHEST (1) TO LOWEST (3) LEVEL OF MAINTENANCE WHICH CAN REPLACE (3rd POSITION OF SM&R CODE) THE ITEM. |
| F H G | REPAIRABLE ITEM. CONDEMN AT INTERMEDIATE LEVEL INDICATED. | 4 5 7 | SAME AS ABOVE. IN ADDITION, ITEM IS A FLR WITH A UNIT COST OF OVER \$5000. THESE CODES ARE NO LONGER ASSIGNED TO NEW, NON-FAMILY RELATED ITEMS. |
| L | REPAIRABLE ITEM. CONDEMN AT SPECIALIZED INTERMEDIATE LEVEL. | 6 | NORMALLY PROCURED AND STOCK NUMBERED BUT ORGANIC CAPABILITY EXISTS FOR EMERGENCY STOP-GAP REQUIREMENTS. |
| | | E | END-TO-END TEST REQUIRED BY IMA PRIOR TO BCM ACTION. |
| D | REPAIRABLE ITEM. CONDEMN AT DEPOT OR CONTRACTOR FACILITY. | J | FLR OR CONSUMABLE ITEM. CHANGE 5th POSITION SM&R CODE TO "D" UNDER PICA/SICA. NAVAIR APPROVAL REQUIRED. |
| | | 8 | SAME AS "J" ABOVE EXCEPT USED FOR ENGINES ONLY. APPLIES TO 2nd LEVEL OF IMA. |
| A | SPECIAL HANDLING REQUIRED. CONTACT ITEM MANAGER FOR DISPOSAL INSTRUCTIONS | 9 | SAME AS "J" ABOVE EXCEPT USED FOR ENGINES ONLY. APPLIES TO 3rd LEVEL OF IMA. |
| | | M | ITEM IS A FLR WITH A UNIT COST OF OVER \$5000. THESE CODES ARE NO LONGER ASSIGNED TO NEW, NON-FAMILY RELATED ITEMS. |
| Z | NON-REPAIRABLE ITEM. CONDEMN AT LEVEL IN 3rd POSITION. | N | ASSIGNED TO XB SOURCE CODE AND INDICATES ITEM IS PROCURED LOCALLY. NOT STOCKED IN THE SUPPLY SYSTEM. |
| | | T | ASSIGNED TO TRAINING DEVICES WITH SOURCE CODE OF "PD". INDICATES ITEM IS NOT A PROCURABLE SPARE. NSN IS ASSIGNED ONLY TO PERMIT VISIBILITY OF REPAIR PART RELATIONSHIP. |

Figure 1. SM&R Code Explanation

ORGANIZATIONAL MAINTENANCE**SYSTEM MAINTENANCE WITH IPB****SIGNAL DATA CONVERTER CV-3493/ ASM-612
(85A-N002)****OR****SIGNAL DATA CONVERTER MOUNTING BASE
(85MTN502)****MAINTENANCE STATUS DISPLAY AND RECORDING SYSTEM****This WP supersedes WP003 00, dated 1 December 1990.**

Reference Material

Line Maintenance Access Doors A1-F18AC-LMM-010
Line Maintenance Procedures A1-F18AC-LMM-000

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Record of Applicable Technical Directives

None

1. SIGNAL DATA CONVERTER CV-3493/
ASM-612.

Support Equipment Required

None

Materials Required

None

2. REMOVAL.



The Signal Data Converter CP-3493/ASM-612 contains electrostatic sensitive devices (ESD) which can be damaged if special handling techniques are not used. Refer to OPNAVINST 4790.2() Volume II.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).
- b. Open door 32R (A1-F18AC-LMM-010).
- c. Disconnect connectors (2, 3, 4, and 5, figure 1).

d. Loosen fasteners securing converter (1) to signal data converter mounting base.

e. Grip converter (1) by handle and slide inboard to disengage from pins.

3. INSTALLATION.



The Signal Data Converter CP-3493/ASM-612 contains electrostatic sensitive devices (ESD) which can be damaged if special handling techniques are not used. Refer to OPNAVINST 4790.2() Volume II.

NOTE

Make sure corrosion prevention of fasteners and attaching parts is done during installation (A1-F18AC-LMM-000).

- a. Make sure electrical power is off (A1-F18AC-LMM-000).
- b. If grounding washer (11, figure 2) has three or more broken contact fingers, refer to Radio Frequency Grounding Contact Strip, A1-F18AC-LMM-000.

c. Put converter (1, figure 1) on signal data converter mounting base and slide outboard to engage pins.

d. Engage and tighten fasteners.

e. Connect connectors (2, 3, 4, and 5).

f. Close door 32R (A1-F18AC-LMM-010).

g. Apply electrical power (A1-F18AC-LMM-000).

h. On GND PWR control panel assembly (figure 3), set and hold 1 switch to A ON and 2 switch to B ON for three seconds.

i. On left and right Digital Display Indicator IP-1317() (LDDI and RDDI), set power switch to DAY or NIGHT as required and allow 2 minute warmup. Adjust BRT and CONT controls for best display.

j. On RDDI, press MENU pushbutton switch. RDDI has menu display.

k. Press BIT pushbutton switch. RDDI has built-in test (BIT) control display.

NOTE

If SDRS status message displays DEGD in the step below, read maintenance codes on Digital Display Indicator ID-2150/ASM-612. If a maintenance code exists, refer to table 2, A1-F18AC-580-200, WP003 00.

l. Press SDRS pushbutton switch. RDDI displays SDRS BIT status message IN TEST then GO.

m. On LDDI and RDDI set power switches to OFF.

n. Remove electrical power (A1-F18AC-LMM-000).

4. SIGNAL DATA CONVERTER MOUNTING BASE.

5. REMOVAL AND INSTALLATION.

Support Equipment Required

None

Materials Required

None

6. REMOVAL.

a. Remove converter, do paragraph 2.

b. Remove four screws (14, figure 2) securing mounting base (1).

c. Remove mounting base (1).

7. INSTALLATION.

a. Prepare mounting base (1, figure 2) and mating aircraft structure for electrical bond (A1-F18AC-LMM-000).

b. Install four screws (14) to secure mounting base (1).

c. Seal mounting base and aircraft structure electrical bond (A1-F18AC-LMM-000).

d. Install converter, do paragraph 3.

8. REPAIR.

Support Equipment Required

None

Materials Required

None

NOTE

Make sure corrosion preventive treatment of fasteners and attaching parts is done during installation (A1-F18AC-LMM-000).

9. Remove and replace rivets (NAVAIR 01-1A-8) and structure parts of mounting base (1, figure 2) as required to replace damaged parts.

10. ILLUSTRATED PARTS BREAKDOWN.

11. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.

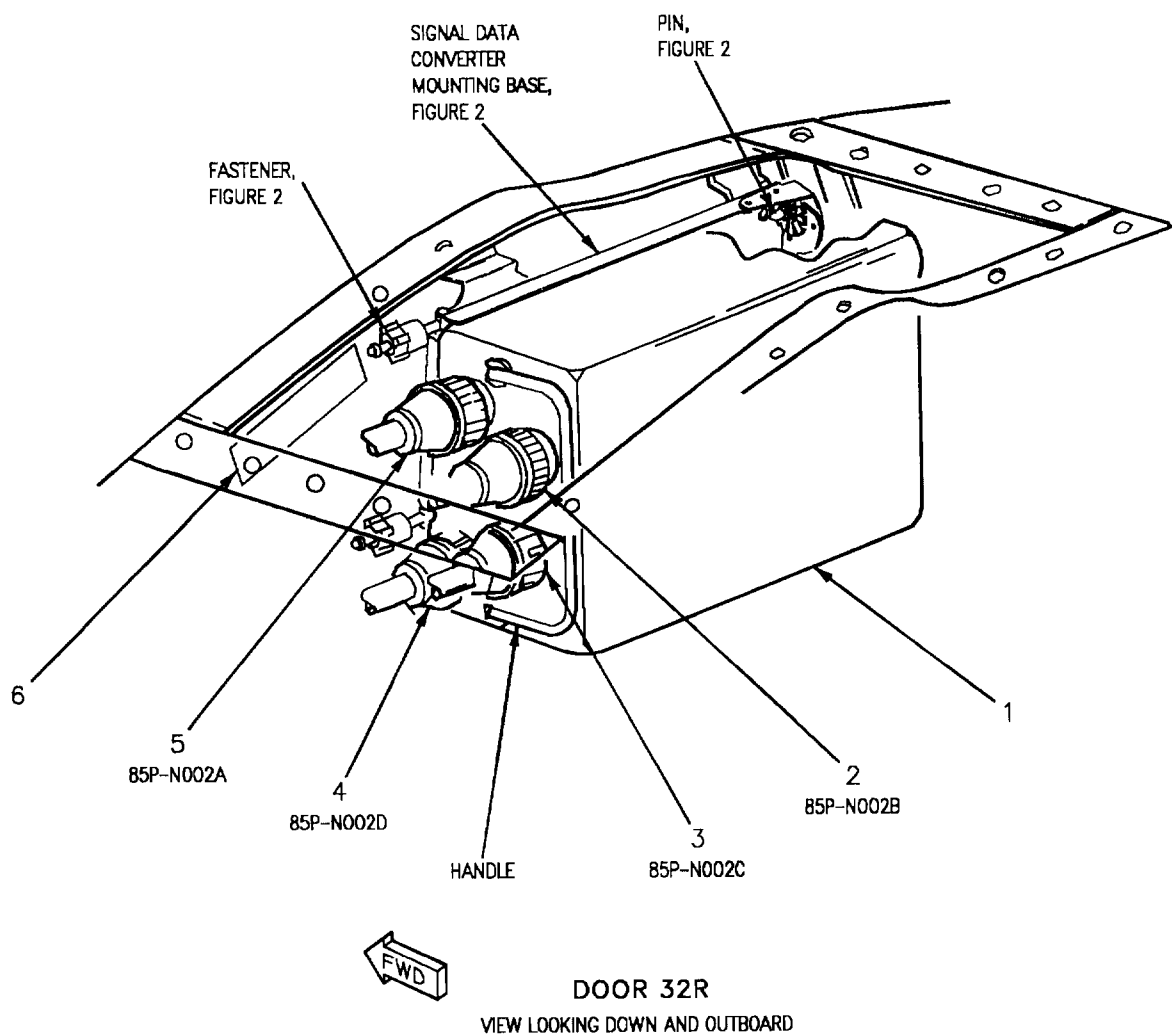
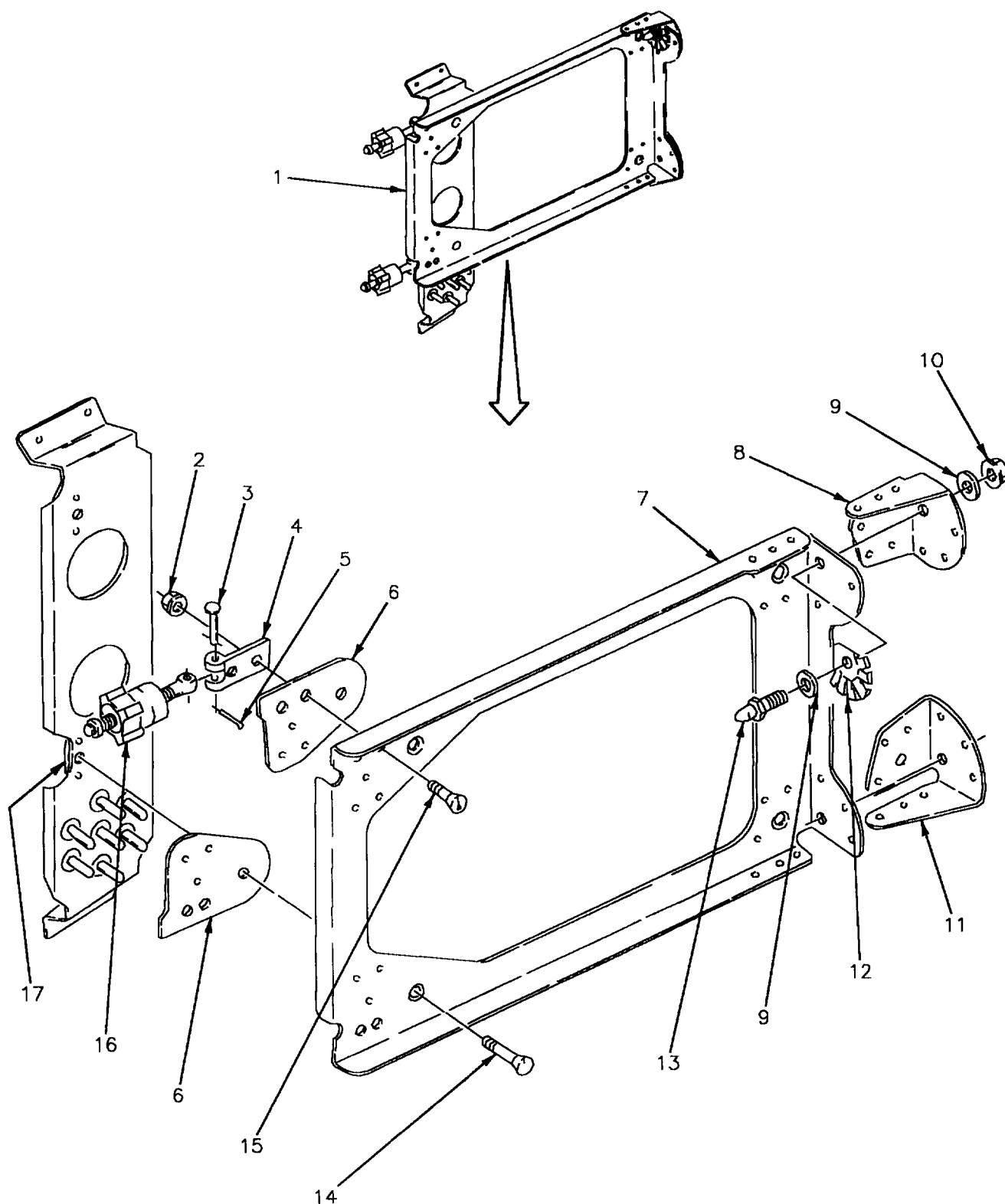


Figure 1. Signal Data Converter CV-3493/ASM-612 (85A-N002) (Sheet 1)

| INDEX NO. | PART NUMBER | DESCRIPTION 1 2 3 4 5 6 7 | UNITS PER ASSY | USABLE ON CODE | SM&R CODE |
|--------------|-----------------|---|----------------------|----------------------|--------------|
| | | | | | |
| | | SIGNAL DATA CONVERTER | | | |
| | | CV-3493/ASM-612 (85A-N002) | | | |
| 1 | 3761022-1 | . CONVERTER, SIGNAL DATA, | 1 | * | PAOGD |
| | | CV-3493/ASM-612 (SIGNAL DATA CONVERTER) (55972) (MCDONNELL SPEC 74-870087-209) (85A-N002) | | | |
| | CV-3493/ASM-612 | . SEE ABOVE (80058) | 1 | * | PAOGD |
| 2 | MS27467T23B35SA | . CONNECTOR, PLUG (85P-N002B) | 1 | | PAOZZ |
| 3 | MS27467T23B35S | . CONNECTOR, PLUG (85P-N002C) | 1 | | PAOZZ |
| 4 | MS27467T25B35SA | . CONNECTOR, PLUG (85P-N002D) | 1 | | PAOZZ |
| 5 | MS27467T25B35S | . CONNECTOR, PLUG (85P-N002A) | 1 | | PAOZZ |
| 6 | 74A885621-2578 | . MARKER, IDENTIFICATION - | 1 | | MDOZZ |
| | | AVIONICS (76301) (FOR REF DES 85A-N002) | | | |

* ALTERNATE OR EQUIVALENT PARTS
(WP002 00).

Figure 1. Signal Data Converter CV-3493/ASM-612 (85A-N002) (Sheet 2)



18AC-580-30-(9-1)10-SCAN

Figure 2. Signal Data Converter Mounting Base (85MTN502) (Sheet 1)

| INDEX NO. | PART NUMBER | DESCRIPTION 1 2 3 4 5 6 7 | UNITS PER ASSY | USABLE ON CODE | SM&R CODE |
|--------------|----------------|--|----------------------|----------------------|--------------|
| | | | | | |
| | | SIGNAL DATA CONVERTER | | | |
| | | MOUNTING BASE (85MTN502) | | | |
| 1 | 74A885601-1003 | . MOUNTING BASE, ELECTRICAL | 1 | | XBOOO |
| | | EQUIPMENT - MAINT SIG DATA | | | |
| | | CONV. (76301) (85MTN502) | | | |
| 2 | MS21042L3 | . NUT | 4 | | PAOZZ |
| 3 | MS20392-1C15 | . PIN | 2 | | PAOZZ |
| 4 | MS14108-15 | . LEAF | 2 | | PAOZZ |
| 5 | MS24665-151 | . PIN, COTTER | 2 | | PAOZZ |
| 6 | 74A885601-2009 | . DOUBLER (76301) | 2 | | MDOZZ |
| | MS20426AD4-28 | . RIVET (AP) | 3 | | PAOZZ |
| 7 | 74A885601-2007 | . TRAY (76301) | 1 | | MDOZZ |
| 8 | 74A885601-2011 | . DOUBLER (76301) | 1 | | MDOZZ |
| | MS20426AD4-28 | . RIVET (AP) | 3 | | PAOZZ |
| | MS20470AD4 # | . RIVET (AP) | 3 | | - |
| 9 | AN960JD416L | . WASHER | 4 | | PAOZZ |
| 10 | NAS1291C4M | . NUT | 2 | | PAOZZ |
| 11 | 869-23 | . WASHER, GROUNDING (30817) | 2 | | PAOZZ |
| | | (MCDONNELL SPEC ST4M147-5) | | | |
| 12 | 74A885601-2012 | . DOUBLER (76301) | 1 | | MDOZZ |
| | MS20426AD4-28 | . RIVET (AP) | 3 | | - |
| | MS20470AD4 # | . RIVET (AP) | 3 | | - |
| 13 | VS3258T4-2-2 | . PIN, SHOULDER, HEADLESS | 2 | * | PAOZZ |
| | | (92215) (MCDONNELL SPEC 3M943T4-2-2) | | | |
| | AAP139T4-2-2 | . SEE ABOVE (84256) | 2 | * | PAOZZ |
| | D792683T2N2 | . SEE ABOVE (97928) | 2 | * | PAOZZ |
| | 11415T4-2-2 | . SEE ABOVE (59563) | 2 | * | PAOZZ |
| 14 | HT4025L3-3 | . SCREW, CLOSE TOLERANCE (73197) | 4 | | PAOZZ |
| | | (MCDONNELL SPEC ST3M454-3L3) | | | |
| 15 | HT4054-3-2A | . SCREW, CLOSE TOLERANCE (73197) | 4 | | PAOZZ |
| | | (MCDONNELL SPEC ST3M730-3L2) | | | |
| 16 | MS14108-5 | . FASTENER | 2 | | PAOZZ |
| 17 | MS21060L3 | . NUT, PLATE | 2 | | PAOZZ |
| | MS20426AD3-20 | . RIVET (AP) | 2 | | PAOZZ |

* ALTERNATE OR EQUIVALENT PARTS
(WP002 00).

LENGTH/SIZE TO BE DETERMINED AT
INSTALLATION.

Figure 2. Signal Data Converter Mounting Base (85MTN502) (Sheet 2)

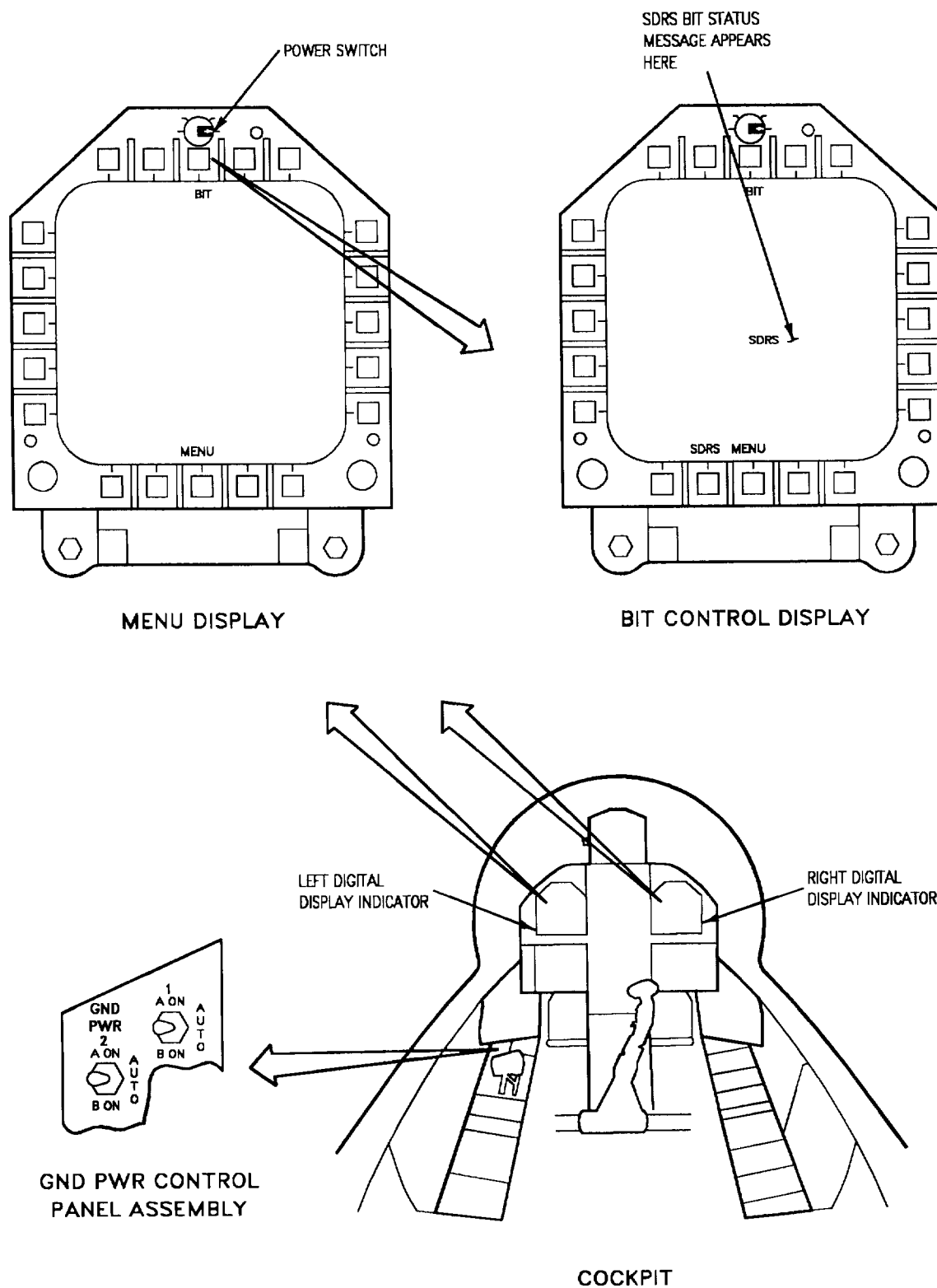


Figure 3. Controls and Indicators

ORGANIZATIONAL MAINTENANCE**SYSTEM MAINTENANCE WITH IPB****SIGNAL DATA RECORDER RO-508/ASM-612
(85A-F001)****OR****MAGNETIC TAPE CARTRIDGE MX-9972/ASM-612
(85A-F501)****MAINTENANCE STATUS DISPLAY AND RECORDING SYSTEM****This WP supersedes WP004 00, dated 1 December 1990**

Reference Material

Line Maintenance Access Doors A1-F18AC-LMM-010
Line Maintenance Procedures A1-F18AC-LMM-000

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| Materials Required | 3 |
| Removal | 3 |
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| Installation | 2 |
| Materials Required | 2 |
| Removal | 2 |
| Support Equipment Required | 2 |
| Signal Data Recorder RO-508/ASM-612 (85A-F001) or Magnetic Tape Cartridge MX-9972/ ASM-612 (85A-F501), Figure 1 | 5 |

Record of Applicable Technical Directives

| Type/ Number | Date | Title and ECP No. | Date Incorp. | Remarks |
|--------------------|----------|---|-----------------|---------|
| F/A-18 IASC 010 | 5 Oct 82 | F/TF/A-18A Maintenance Status Display and Recording System - Signal Data Record- ing Set BIT, Reprogramming of (ECP MDA- F/A-18-00116) | 1 Oct 82 | - |

1. SIGNAL DATA RECORDER RO-508/ ASM-612.

Support Equipment Required

None

Materials Required

None

2. REMOVAL.



The Signal Data Recorder RO-508/ASM-612 contains electrostatic sensitive devices (ESD) which can be damaged if special handling techniques are not used. Refer to OPNAV-INST 4790.2() Volume II.

- Make sure electrical power is off (A1-F18AC-LMM-000).
- Open door 10L (A1-F18AC-LMM-010).
- On no. 8 circuit breaker/relay panel assembly (zone D2), open circuit breaker MSDRS (figure 2).
- Open door 14R (A1-F18AC-LMM-010).
- Disconnect connectors (5 and 6, figure 1).
- Loosen bolt assemblies (2), securing recorder (3) to shelf.
- Grip recorder (3) by handle and slide outboard to disengage from pins (7).
- Press PUSH TO RELEASE button to disengage cartridge (4).

- Grip cartridge (4) and slide outboard to remove from recorder (3). Replace cartridge.

3. INSTALLATION.



The Signal Data Recorder RO-508/ASM-612 contains electrostatic sensitive devices (ESD) which can be damaged if special handling techniques are not used. Refer to OPNAV-INST 4790.2() Volume II.

- Position cartridge (4, figure 1) in recorder (3) and slide inboard.
- Press PRESS TO LOCK handle to lock cartridge (4) in recorder (3).
- Make sure electrical power is off (A1-F18AC-LMM-000).
- If contact strip (9) has three or more broken contact fingers, refer to Radio Frequency Grounding Contact Strips, A1-F18AC-LMM-000.
- Position recorder (3) on shelf and slide inboard to engage pins (7).
- Engage and tighten bolt assemblies (2).
- Connect connectors (5 and 6).
- Close door 14R (A1-F18AC-LMM-010).
- On no. 8 circuit breaker/relay panel assembly (zone D2), close circuit breaker MSDRS (figure 2).
- Close door 10L (A1-F18AC-LMM-010).
- Apply electrical power (A1-F18AC-LMM-000).

l. On GND PWR control panel assembly (figure 2), set and hold 1 switch to A ON and 2 switch to B ON for three seconds.

m. On left and right Digital Display Indicator IP-1317() (LDDI and RDDI), set power switch to DAY or NIGHT as required and allow 2 minute warmup. Adjust BRT and CONT controls for best display.

n. On nose wheelwell Digital Display Indicator ID-2150/ASM-612, press DDI BIT/RESET switch.

o. On RDDI, press MENU pushbutton switch. RDDI has menu display.

p. Press BIT pushbutton switch. RDDI has built-in test (BIT) control display.

NOTE

If SDRS status message displays DEGD in the step below, read maintenance codes on Digital Display Indicator ID-2150/ASM-612. If a maintenance code exists, refer to table 2, A1-F18AC-580-200, WP003 00.

q. Press SDRS pushbutton switch. RDDI displays SDRS BIT status message display IN TEST then GO.

r. On LDDI and RDDI, set power switches to OFF.

s. Remove electrical power (A1-F18AC-LMM-000).

t. If Signal Data Recorder RO-508/ASM-612 was replaced for maintenance code 030, make sure nose wheelwell Digital Display Indicator ID-2150/ASM-612 WPN SYS FAIL indicator is black. If WPN SYS FAIL indicator is not black, make sure maintenance code 030 is not displayed during Digital Display Indicator ID-2150/ASM-612 maintenance code readout. If maintenance code 030 is displayed, do table 2 (A1-F18AC-580-200, WP003 00).

4. MAGNETIC TAPE CARTRIDGE MX-9972/ASM-612.

Support Equipment Required

None

Materials Required

None

5. REMOVAL.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Open door 14R (A1-F18AC-LMM-010).

c. Press PUSH TO RELEASE button to disengage cartridge (4, figure 1).

d. Grip cartridge (4) and slide outboard to remove from recorder (3).

6. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Position cartridge (4, figure 1) in recorder (3) and slide inboard.

c. Press PRESS TO LOCK handle to lock cartridge (4) in recorder (3).

d. Close door 14R (A1-F18AC-LMM-010).

e. Apply electrical power (A1-F18AC-LMM-000).

f. On GND PWR control panel assembly (figure 2), set and hold 1 switch to A ON and 2 switch to B ON for three seconds.

g. On left and right Digital Display Indicator IP-1317() (LDDI and RDDI), set power switch to DAY or NIGHT as required and allow 2 minute warmup. Adjust BRT and CONT controls for best display.

h. On RDDI, press MENU pushbutton switch. RDDI has menu display.

i. Press BIT pushbutton switch. RDDI has built-in test (BIT) control display.

NOTE

If SDRS status message displays DEGD in the step below, read maintenance codes on Digital Display Indicator ID-2150/ASM-612. If a maintenance code exists, refer to table 2, A1-F18AC-580-200, WP003 00.

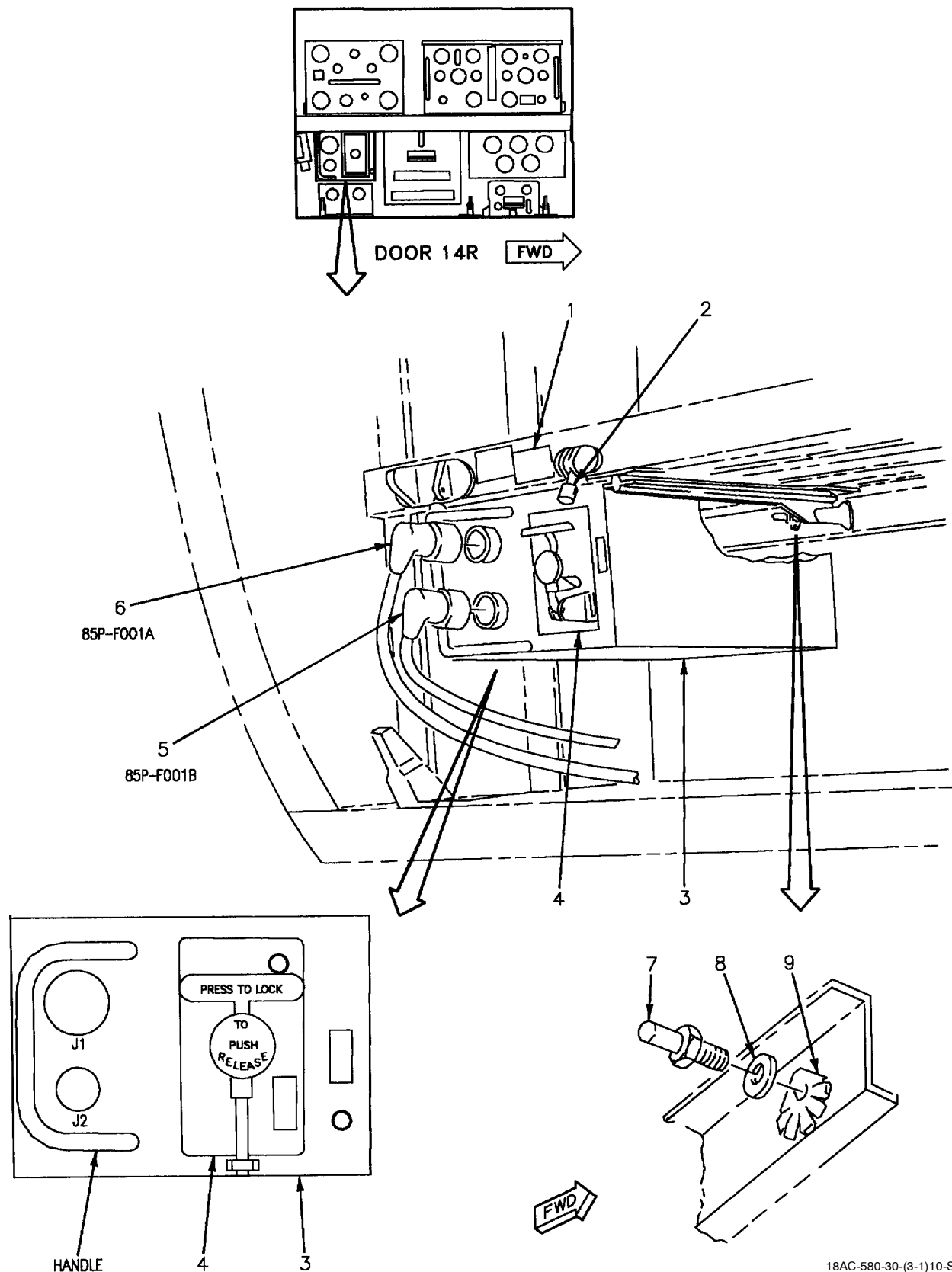
j. Press SDRS pushbutton switch. RDDI displays SDRS BIT status message display IN TEST, then GO.

k. On LDDI and RDDI, set power switches to OFF.

l. Remove electrical power (A1-F18AC-LMM-000).

7. ILLUSTRATED PARTS BREAKDOWN.

8. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.



18AC-580-30-(3-1)10-SCAN

Figure 1. Signal Data Recorder RO-508/ASM-612 (85A-F001) or Magnetic Tape Cartridge MX-9972/ASM-612 (85A-F501) (Sheet 1)

| INDEX NO. | PART NUMBER | DESCRIPTION | UNITS PER ASSY | USABLE ON CODE | SM&R CODE |
|-----------|-----------------|---|----------------|----------------|-----------|
| | | 1 2 3 4 5 6 7 | | | |
| | | SIGNAL DATA RECORDER | | | |
| | | RO-508/ASM-612 (85A-F001) OR | | | |
| | | MAGNETIC TAPE CARTRIDGE | | | |
| | | MX-9972/ASM-612 (85A-F501) | | | |
| 1 | 74A890012-2005 | . PLATE, IDENTIFICATION - BAY 4R (76301) | 1 | | MDOZZ |
| 2 | MS14108-6-CP | . FASTENER | 2 | | PAOZZ |
| | 74A880683-2005 | . SPRING, SUPPORT EQUIP LOCK | 2 | | PAOZZ |
| | | FASTENER (76301) (USE WITH INDEX 2) | | | |
| | MS20392-1C19 | . PIN (USE WITH INDEX 2) | 2 | C | PAOZZ |
| | MS20392-1P19 | . PIN (USE WITH INDEX 2) | 2 | D | PAOZZ |
| | NAS620C5L | . WASHER (USE WITH INDEX 2) | 2 | | PAOZZ |
| | MS24665-151 | . PIN, COTTER (USE WITH INDEX 2) | 2 | | PAOZZ |
| 3 | 3839010-6 | . RECORDER, SIGNAL DATA | 1 | A | PAOGD |
| | | RO-508/ASM-612 (SIGNAL DATA RECORDER) (55972) (MCDONNELL SPEC 74-870087-211) (85A-F001) | | | |
| | 3839010-5 | . RECORDER, SIGNAL DATA | 1 | B | PAOGD |
| | | RO-508/ASM-612 (55972) (MCDONNELL SPEC 74-870087-207) (85A-F001) | | | |
| | RO-508/ASM-612 | . RECORDER, SIGNAL DATA | 1 | * | PAOGD |
| | | RO-508/ASM-612 (80058) (85A-F001) | | | |
| 4 | 3839008-1 | . CARTRIDGE, MAGNETIC TAPE | 1 | * | PAOGD |
| | | MX-9972/ASM-612 (MAGNETIC TAPE CARTRIDGE) (55972) (MCDONNELL SPEC 74-870087-205) (85A-F501) | | | |
| | MX-9972/ASM-612 | . CARTRIDGE, MAGNETIC TAPE | 1 | * | PAOGD |
| | | MX-9972/ASM-612 (80058) (85A-F501) | | | |
| 5 | MS27467T21B35S | . CONNECTOR, PLUG (85P-F001B) | 1 | | PAOZZ |
| 6 | MS27467T25B35S | . CONNECTOR, PLUG (85P-F001A) | 1 | | PAOZZ |
| 7 | VS3258C4-2-4 | . PIN, SHOULDER, HEADLESS | 2 | * | PAOZZ |
| | | (92215) (MCDONNELL SPEC 3M943C4-2-4) | | | |
| | AAP139C4-2-4 | . SEE ABOVE (84256) | 2 | * | PAOZZ |
| | D792683C2N4 | . SEE ABOVE (97928) | 2 | * | PAOZZ |
| | 11415C4-2-4 | . SEE ABOVE (59563) | 2 | * | PAOZZ |
| 8 | 4M36-02014 | . WASHER, FLAT (76301) | 2 | | PAOZZ |
| 9 | 869-28 | . CONTACT STRIP, RADIO FREQUENCY | 2 | | PAOZZ |
| | | GROUNDING (30817) (MCDONNELL SPEC ST4M147-5A) | | | |

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

| CODE | USABLE ON | MODEL |
|------|--|------------------|
| A | 161702 & UP; ALSO 161353 THRU 161528 AFTER F/A-18 IASC 010 | F/A-18A, F/A-18B |
| B | 161353 THRU 161528 BEFORE F/A-18 IASC 010 | F/A-18A, F/A-18B |
| C | 162826 AND UP | F/A-18A, F/A-18B |

Figure 1. Signal Data Recorder RO-508/ASM-612 (85A-F001) or Magnetic Tape Cartridge MX-9972/ASM-612 (85A-F501) (Sheet 2)

| INDEX NO. | PART NUMBER | DESCRIPTION 1 2 3 4 5 6 7 | UNITS PER ASSY | USABLE ON CODE | SM&R CODE |
|--------------|----------------|------------------------------|----------------------|----------------------|--------------|
|--------------|----------------|------------------------------|----------------------|----------------------|--------------|

D 161353 THRU 162477 F/A-18A, F/A-18B

Figure 1. Signal Data Recorder RO-508/ASM-612 (85A-F001) or Magnetic Tape Cartridge MX-9972/ASM-612 (85A-F501) (Sheet 3)

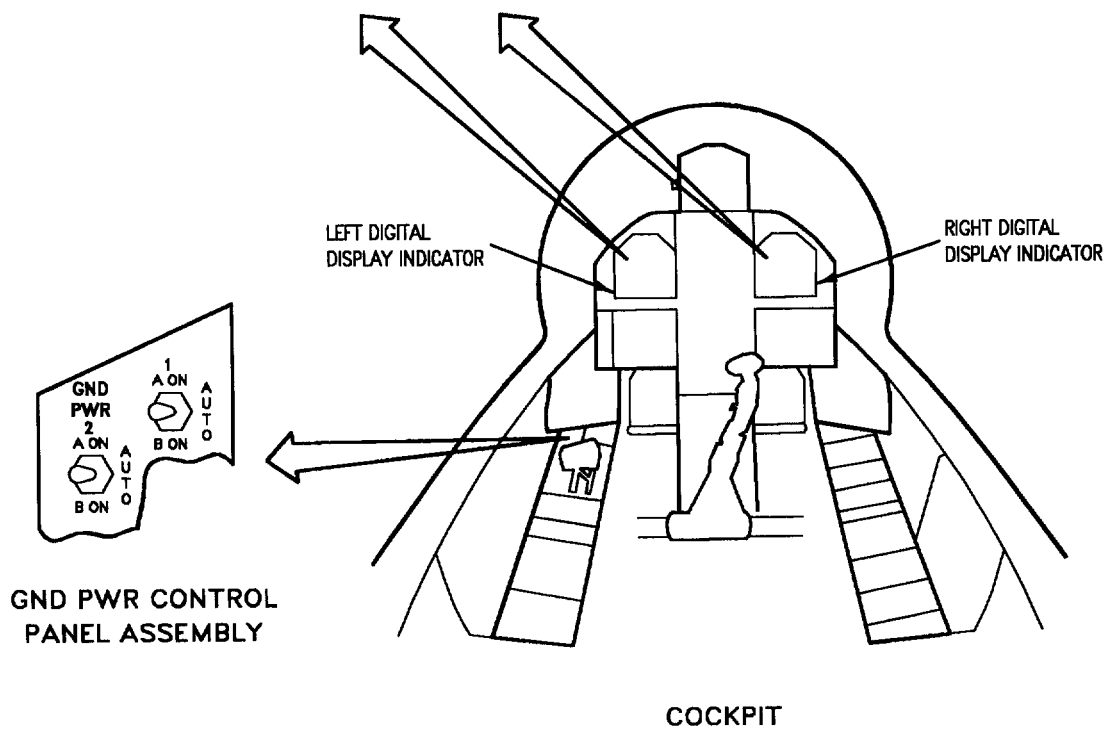
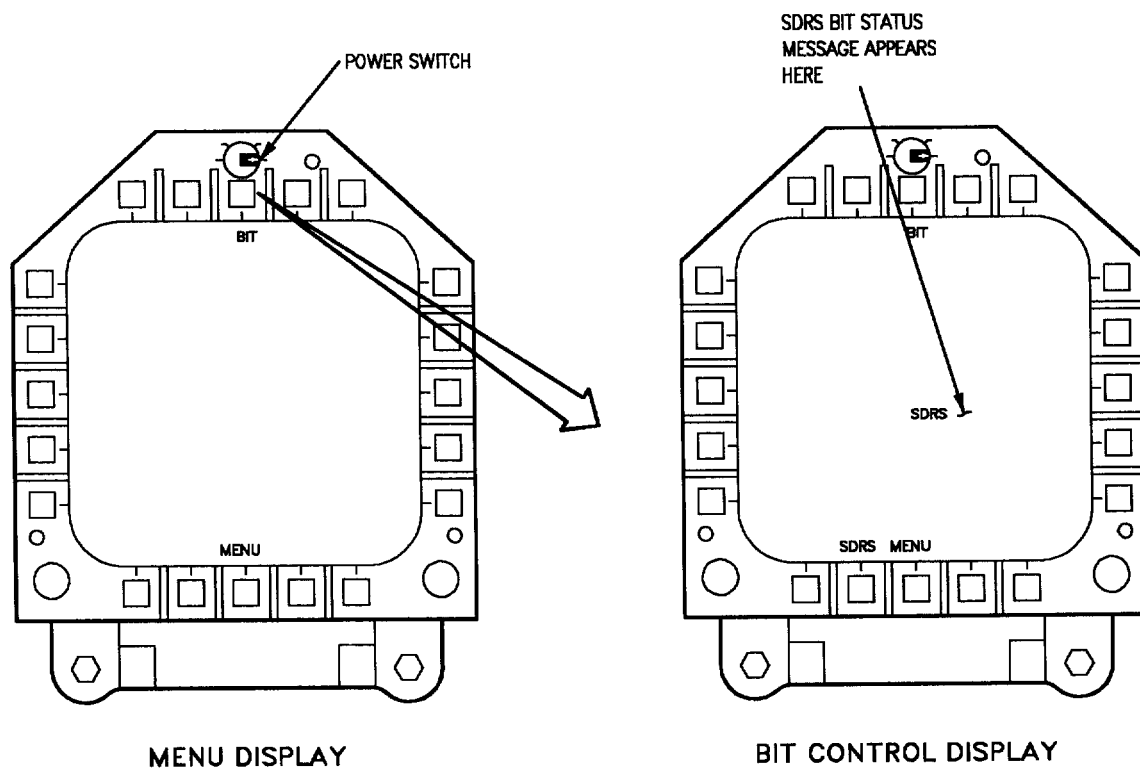


Figure 2. Controls and Indicators (Sheet 1)

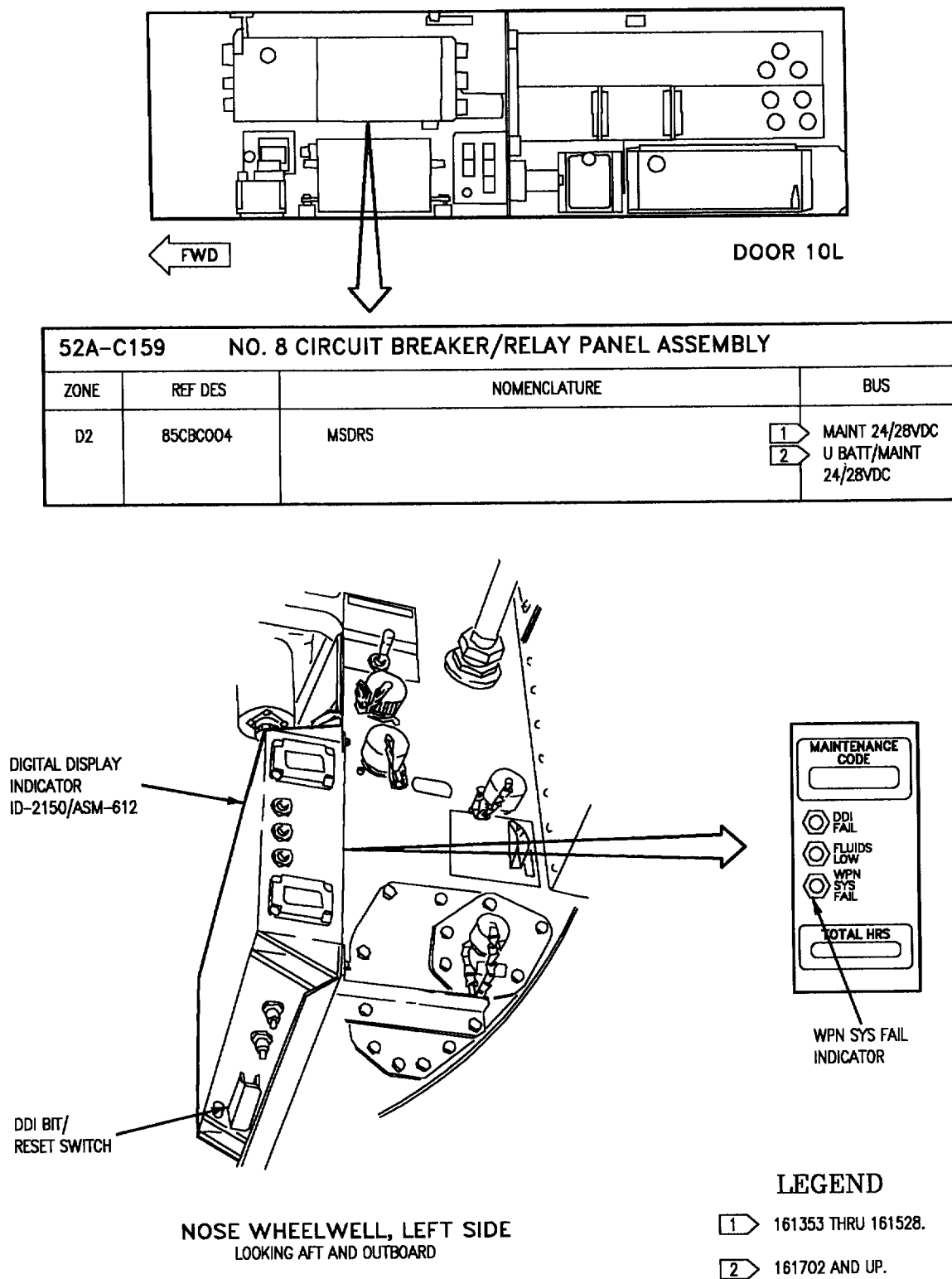


Figure 2. Controls and Indicators (Sheet 2)

ORGANIZATIONAL MAINTENANCE**SYSTEM MAINTENANCE WITH IPB****DIGITAL DISPLAY INDICATOR ID-2150/ ASM-612****(85A-G003)****MAINTENANCE STATUS DISPLAY AND RECORDING SYSTEM****This WP supersedes WP005 00, dated 1 December 1990.****Reference Material**

Line Maintenance Procedures A1-F18AC-LMM-000

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| Illustration, Removal and Installation | 3 |
| Parts List, Removal and Installation | 4 |
| Installation | 2 |
| Materials Required | 1 |
| Removal | 2 |
| Support Equipment Required | 1 |

Record of Applicable Technical Directives

| Type/ Number | Date | Title and ECP No. | Date Incorp. | Remarks |
|-------------------------|-------------|---|-------------------------|-------------------|
| F/A-18 AFC 90 | - | GFE Battery Relay Control Unit, Incorporation of (ECP-MDA-F/A-18-00165R1) | 1 Aug 88 | ECP coverage only |

Support Equipment Required

None

Materials Required

None

1. REMOVAL.



The Digital Display Indicator ID-2150/ASM-612 contains electrostatic sensitive devices (ESD) which can be damaged if special handling techniques are not used. Refer to OP-NAVINST 4790.2() Volume II.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).
- b. Disconnect connector (1, figure 1) from indicator (2).



Metal tools must not be used for removing sealant. The structure may be scratched, resulting in oxidation.

- c. Using a nonmetallic tool, remove sealant from four bolts (3).
- d. Remove four bolts (3) and four washers securing indicator (2).

2. INSTALLATION.



The Digital Display Indicator ID-2150/ASM-612 contains electrostatic sensitive devices (ESD) which can be damaged if special handling techniques are not used. Refer to OP-NAVINST 4790.2() Volume II.

NOTE

Make sure corrosion prevention of fasteners and attaching parts is done during installation (A1-F18AC-LMM-000).

- a. Make sure electrical power is off (A1-F18AC-LMM-000).
- b. Prepare indicator (2, figure 1) and mating aircraft structure for electrical bond (A1-F18AC-LMM-000).
- c. Install indicator (2) with four bolts (3) and four washers.
- d. Connect connector (1).
- e. On 163119 AND UP; ALSO 161353 THRU 163118 AFTER F/A-18 AFC 90, use figure 2 and do substeps below:

(1) If external power is not applied or if generators are not operating, momentarily set MMP ENABLE/BRCU to RESET position.

f. On Digital Display Indicator ID-2150/ASM-612 (2), press DDI BIT/RESET switch. Observe the steps below occur within approximately 30 seconds:

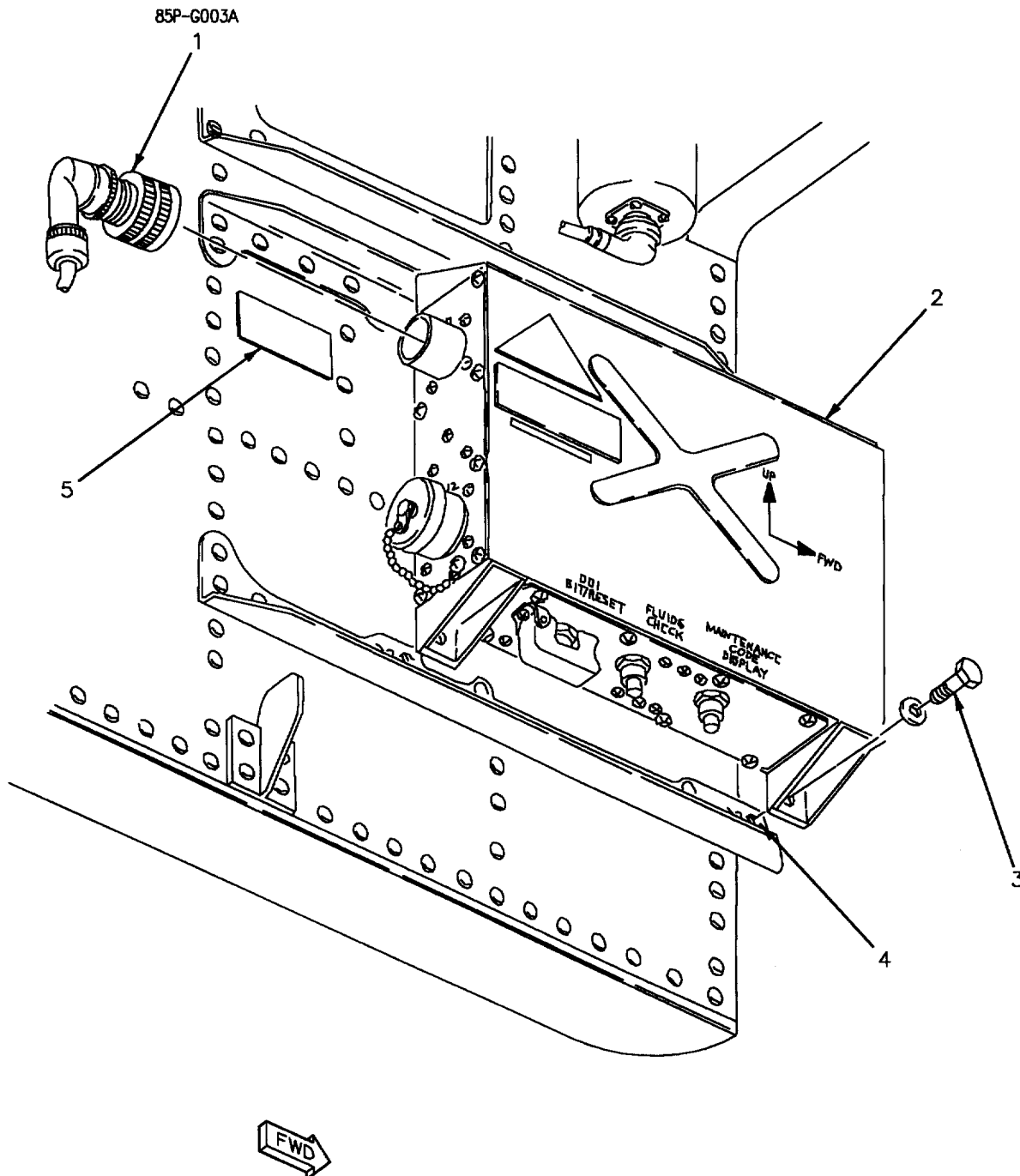
(1) DDI FAIL, FLUIDS LOW, and WPN SYS FAIL indicators are black and white.

(2) MAINTENANCE CODE display is 888, 682, 341, and then 000.

(3) DDI FAIL, FLUIDS LOW, and WPN SYS FAIL indicators are black.

3. ILLUSTRATED PARTS BREAKDOWN.

4. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.



NOSE WHEELWELL

LEFT SIDE, VIEW LOOKING UP AND OUTBOARD

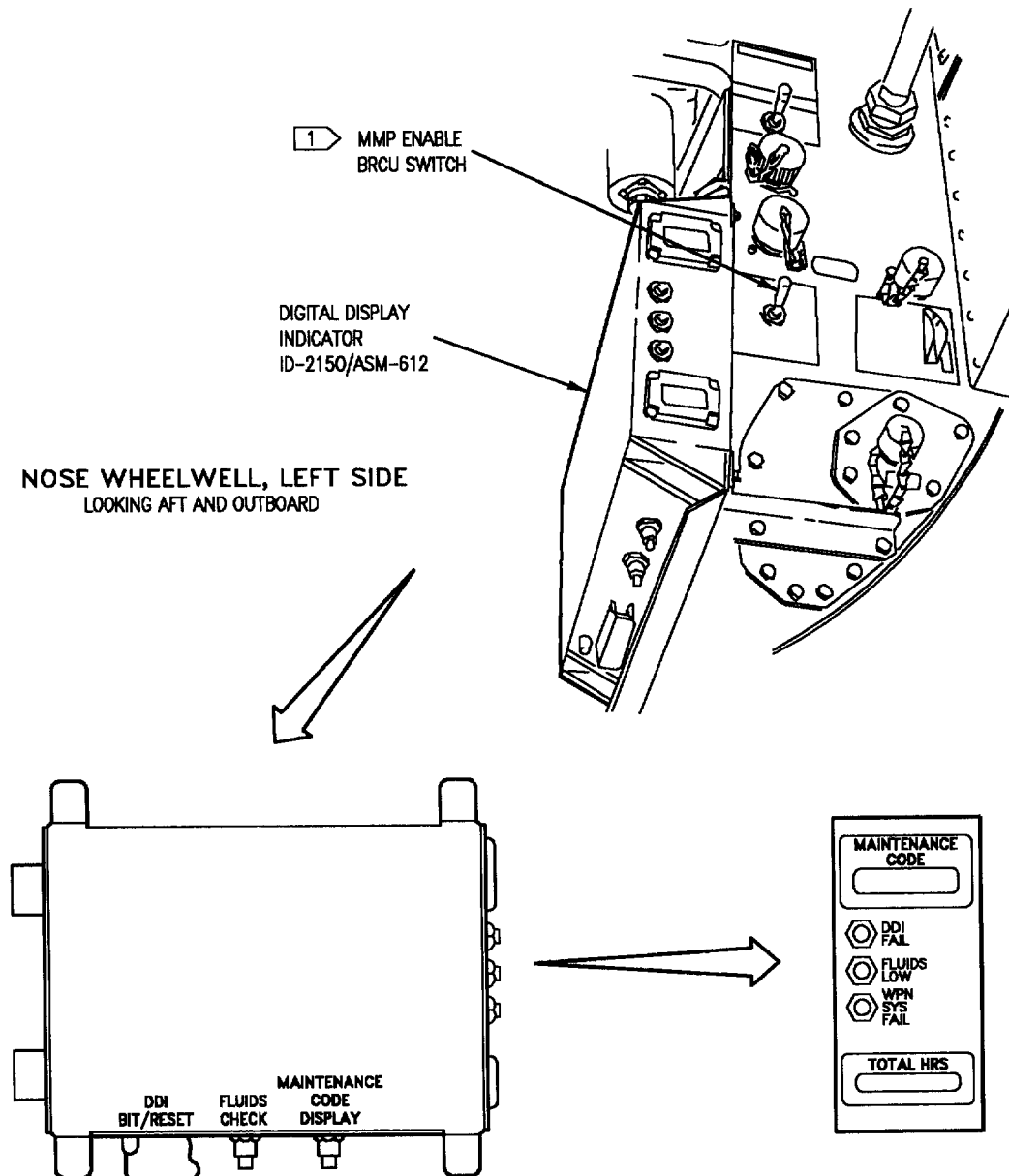
Figure 1. Digital Display Indicator ID-2150/ASM-612 (85A-G003) (Sheet 1)

| INDEX NO. | PART NUMBER | DESCRIPTION 1 2 3 4 5 6 7 | UNITS PER ASSY | USABLE ON CODE | SM&R CODE |
|--------------|-----------------|---|----------------------|----------------------|--------------|
| | | DIGITAL DISPLAY INDICATOR | | | |
| | | ID-2150/ASM-612 (85A-G003) | | | |
| 1 | MS27467T15B35S | . CONNECTOR, PLUG (85P-G003A) | 1 | | PAOZZ |
| 2 | 712-101000-71 | . INDICATOR, DIGITAL DISPLAY | 1 | * | PAOGD |
| | | ID-2150/ASM-612 (NOSE WHEELWELL DIGITAL DISPLAY INDICATOR) (19133) (MCDONNELL SPEC 74-870088-105) (85A-G003) | | | |
| | ID-2150/ASM-612 | . INDICATOR, DIGITAL DISPLAY | 1 | * | PAOGD |
| | | ID-2150/ASM-612 (80058) (85A-G003) | | | |
| 3 | NAS673V5 | . BOLT | 4 | | PAOZZ |
| | AN960JD10L | . WASHER (USE WITH INDEX 3) | 4 | | PAOZZ |
| 4 | MS21062L3 | . NUT, PLATE | 4 | | PAOZZ |
| | MS20426AD3 # | . RIVET (AP) | 2 | | - |
| 5 | 74A890003-2015 | . PLATE, IDENTIFICATION (76301) | 1 | | MDOZZ |

* ALTERNATE OR EQUIVALENT PARTS
(WP002 00).

LENGTH/SIZE TO BE DETERMINED AT
INSTALLATION.

Figure 1. Digital Display Indicator ID-2150/ASM-612 (85A-G003) (Sheet 2)



LEGEND

- 1 163119 AND UP; ALSO 161353 THRU 163118 AFTER F/A-18 AFC 90.

Figure 2. Control and Indicators

ORGANIZATIONAL MAINTENANCE**SYSTEM MAINTENANCE WITH IPB****STRAIN GAGES
PART NO. DTD2684****MAINTENANCE STATUS DISPLAY AND RECORDING SYSTEM**

Reference Material

| | |
|--|--------------------|
| Line Maintenance Access Doors | A1-F18AC-LMM-010 |
| Line Maintenance Procedures | A1-F18AC-LMM-000 |
| Maintenance Status Display and Recording System | A1-F18AC-580-200 |
| Memory Inspect Data | WP007 00 |
| Wiring Repair With Parts Data General Wiring Repair Procedures | A1-F18A()-WRM-000 |
| Wiring Information | WP002 01 |
| Splice Combinations and End Caps | WP035 00 |
| EMI (Shield Boot Splice) Assembly | WP060 00 |

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Record of Applicable Technical Directives

None

1. INTRODUCTION.

2. Two fatigue strain gages are bonded to the airframe at seven locations on the aircraft (figure 1). At each location, one strain gage is designated as primary and is spliced to aircraft wiring. The other strain gage is designated as a backup. Wires to the backup strain gages are capped and stowed near the splice.

3. When a primary strain gage becomes defective, its wires are removed from the splice, capped, and stowed. A resistance test is done on the backup strain gage to determine if it is functional. If it is found to be functional, its wires are then terminated to the aircraft wiring.

4. When both strain gages at any location are determined to be defective, the strain input from that location to the Signal Data Converter CV-3493/ ASM-612 (converter) must be temporarily disabled. This prevents filling the Magnetic Tape Cartridge MX-9972/ ASM-612 with too much fatigue strain data. Both strain gages at that location must be replaced.

5. After replacement of the primary and backup strain gages at any location, a resistance test and memory inspect is done on the gages to determine that strain gages are now functional. The primary strain gage wires are then terminated to aircraft wiring. The backup strain gage wires are capped and stowed near the splice.

6. BACKUP STRAIN GAGE SPLICE
RETERMINATION.

7. TEST.

Support Equipment Required

NOTE

Alternate item type designations or part numbers are listed in parentheses.

Part Number or
Type Designation

Nomenclature

260-6XLP
(AN/USM-311)

Multimeter

Materials Required

None

a. Refer to Miscellaneous History Card OPNAV 4790/25A which is part of the aircraft logbook to determine if splice has been reterminated. If splice has been reterminated, temporarily disable strain gage input (paragraph 9) to converter until removal and installation of defective strain gages can be accomplished (paragraph 10). If splice has not been reterminated, continue with step b.

b. Make sure electrical power is off (A1- F18AC-LMM-000).

c. Open door (figure 1) to get access to splice point (A1-F18AC-LMM-010).

d. If reterminating left wing fold strain gage splice WTU004, remove Left Wingtip Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1- F18AC-740-300, WP007 00).

e. On 161353 THRU 161521, if reterminating left vertical stabilizer strain gage splice WTS004 or right vertical stabilizer strain gage splice WTT002, remove respective engine (A1-F18AC-270-300, WP003 00).

f. Remove spot ties as required to get access to backup strain gage wires.

g. Remove caps from wires and do resistance tests (figure 2) below:

BRN to RED (735 to 765 ohms)
BRN to ORN (980 to 1020 ohms)
BRN to YEL (735 to 765 ohms)
BRN to aircraft ground (open)

h. If any of the resistance tests are out of tolerance, temporarily disable strain gage input to converter (paragraph 9) until removal and installation of defective strain gages can be done (paragraph 10).

i. If all of the resistance tests are good, do retermination procedure (paragraph 8).

8. RETERMINATION.

a. Remove spot ties, as required, to get access to splice point.

b. Remove clamps, as required, to get access to splice point.

c. Remove cover from splice point.

d. Cut wires of defective strain gage at splice point.

e. Remove wires of backup strain gage from stowed position.

f. Make sure aircraft wire numbers (figure 2) are installed on wires to be spliced (A1-F18A()-WRM-000, WP002 01).

g. Cut wires of backup strain gage to length and splice (A1-F18A()-WRM-000, WP035 00) to aircraft wiring (figure 2).

h. Install end caps on splices (A1-F18A()-WRM-000, WP035 00).

i. Install end caps on wires of defective strain gage. Identify defective strain gage wiring as defective and stow (A1-F18A()-WRM-000, WP035 00).

j. Install cover over splice point (A1-F18A()-WRM-000, WP060 00).

k. Install spot ties, as required, to support wire routing.

l. Install clamps if removed.

m. Close access door (A1-F18AC-LMM-010).

n. Apply electrical power (A1-F18AC-LMM-000).

o. On GND PWR control panel assembly (figure 3), set and hold 1 switch to A ON and 2 switch to B ON for three seconds.

p. On left and right Digital Display Indicator IP-1317() (LDDI and RDDI), set power switch to DAY or NIGHT as required and allow 2 minute warmup. Adjust BRT and CONT controls for best display.

q. On L/RDDI, press MENU pushbutton switch. RDDI has menu display.

r. Press BIT pushbutton switch. RDDI has built-in test (BIT) control display.

s. If SDRS status message displays DEGD in the step below, read maintenance codes on Digital Display Indicator ID-2150/ASM-612. If a maintenance code exists, refer to table 2, Maintenance Action For System Maintenance Codes (A1-F18AC- 580-200, WP003 00).

t. Press SDRS pushbutton switch. RDDI displays SDRS BIT status message IN TEST then GO.

u. Set power switches to OFF.

v. Remove electrical power (A1-F18AC-LMM-000).

w. Make entry on Miscellaneous History Card OP-NAV 4790/25A which is part of the aircraft logbook to note that splice has been reterminated.

9. **BACKUP STRAIN GAGE DISABLE.****Support Equipment Required**

None

Materials Required**Specification****or Part Number****Nomenclature**

MIL-T-43435TYPE-A
SIZE-3 FINISH-B
(CAGE 81349)

Lacing Tape (Spot Tie)

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Open door (figure 1) to get access to splice point (A1-F18AC-LMM-010).

c. If disabling left wing fold strain gage at splice WTU004, remove Left Wingtip Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP007 00).

d. On 161353 THRU 161521, if disabling left vertical stabilizer strain gage at splice WTS004 or right vertical stabilizer strain gage at splice WTT002, remove respective engine (A1-F18AC- 270-300, WP003 00).

e. Remove spot ties as required to get access to splice point.

f. Remove clamps as required to get access to splice point.

g. Remove cover from splice point.

h. Cut wires of defective strain gage at splice point.

i. Install end caps on wires to defective strain gage. Identify wires to defective strain gage as defective and stow (A1-F18A()-WRM-000, WP035 00).

j. Install end cap on aircraft wire which was connected to strain gage brown wire (A1-F18A()-WRM-000, WP035 00).

k. Install end cap on aircraft wire which was connected to strain gage orange wire (A1-F18A()-WRM-000, WP035 00).

l. Splice aircraft wires which were connected to strain gage red wire and yellow wire (A1-F18A()-WRM-000, WP035 00).

m. Install end cap on splice (A1-F18A()-WRM-000, WP035 00).

n. Install cover over splice point (A1-F18A()-WRM-000, WP060 00).

o. Install spot ties as required to support wire routing.

p. Install clamps if removed.

q. Close access door (A1-F18AC-LMM-010).

r. Apply electrical power (A1-F18AC-LMM-000).

s. On GND PWR control panel assembly (figure 3), set and hold 1 switch to A ON and 2 switch to B ON for three seconds.

t. On left and right Digital Display Indicator IP-1317() (LDDI and RDDI), set power switch to DAY or NIGHT as required and allow 2 minute warmup. Adjust BRT and CONT controls for best display.

u. On L/RDDI, press MENU pushbutton switch. RDDI has menu display.

v. Press BIT pushbutton switch. RDDI has built-in test (BIT) control display.

w. If SDRS status message displays DEGD in the step below, read maintenance codes on Digital Display Indicator ID-2150/ASM-612. If a maintenance code exists, refer to table 2, Maintenance Action For System Maintenance Codes (A1-F18AC- 580-200, WP003 00).

x. Press SDRS pushbutton switch. RDDI displays SDRS BIT status message IN TEST then GO.

y. Set power switches to OFF.

z. Remove electrical power (A1-F18AC-LMM-000).

aa. Make entry on Miscellaneous History Card OPNAV 4790/25A which is part of aircraft logbook to note that strain gage has been disabled.

10. REMOVAL, INSTALLATION, AND RETERMINATION.

11. REMOVAL AND INSTALLATION.

12. Left Wing Root Strain Gage (85M-U020). Remove and replace per A1-F18AC-SRM-210, WP023 00. Reterminate per paragraph 19, this WP.

13. Left Wing Fold Strain Gage (85M U021). Remove and replace per A1-F18AC-SRM-210, WP023 00. Reterminate per paragraph 19, this WP.

14. Drag Brace Support Strain Gage (85M-F019). Remove and replace per A1-F18AC-SRM-220, WP021 01. Reterminate per paragraph 19, this WP.

15. Left Horizontal Stabilator Strain Gage (85M-S013). Remove and replace per A1-F18AC-SRM-241, WP036 00. Reterminate per paragraph 19, this WP.

16. Right Horizontal Stabilator Strain Gage (85M-T012). Remove and replace per A1-F18AC-SRM-241, WP036 00. Reterminate per paragraph 19, this WP.

17. Left Vertical Stabilizer Strain Gage (85M-S011). Remove and replace per A1-F18AC-SRM-241, WP036 00. Reterminate per paragraph 19, this WP.

18. Right Vertical Stabilizer Strain Gage (85M-T010). Remove and replace per A1-F18AC-SRM-241, WP036 00. Reterminate per paragraph 19, this WP.

19. RETERMINATION.

20. Test.

Support Equipment Required

NOTE

Alternate item type designations or part numbers are listed in parentheses.

Part Number or Type Designation

Nomenclature

260-6XLP
(AN/USM-311)

Multimeter

Materials Required

None

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Open door (figure 1) to get access to splice point (A1-F18AC-LMM-010).

c. If reterminating left wing fold strain gage splice WTU004, remove Left Wingtip Command Signal Encoder-Decoder KY-853/AYQ-9(V) (A1-F18AC-740-300, WP007 00).

d. On 161353 THRU 161521, if reterminating left vertical stabilizer strain gage splice WTS004 or right vertical stabilizer strain gage splice WTT002, remove respective engine (A1-F18AC-270-300, WP003 00).

e. Do resistance tests (figure 2) below on both primary and backup strain gage.

BRN to RED (735 to 765 ohms)
BRN to ORN (980 to 1020 ohms)
BRN to YEL (735 to 765 ohms)
BRN to aircraft ground (open)

f. Do memory inspect on primary and backup strain gage (A1-F18AC-580-200, WP007 00).

g. If any of the resistance tests and memory inspect range are out of tolerance, strain gage is defective and must be replaced.

h. If all of the resistance tests are good, do strain gage splice retermination procedure.

21. Retermination.

a. Temporarily identify primary and backup strain gage wires for routing to splice point.

b. Remove spot ties, as required, to route strain gage wires to splice point.

c. Remove clamps, as required, to route strain gage wires to splice point.

d. Remove cover from splice point.

e. Make sure aircraft wire numbers (figure 2) are installed on wires to be spliced (A1-F18A()-WRM-000, WP002 01).

NOTE

When reterminating splices after removal and installation of both strain gages, make sure primary strain gage wires are spliced to aircraft wiring.

f. Cut wires of primary strain gage to length and splice (A1-F18A()-WRM-000, WP035 00) to aircraft wiring (figure 2).

g. Install end caps on splices (A1-F18A()-WRM-000, WP035 00).

h. Install end caps on backup strain gage wires and stow (A1-F18A()-WRM-000, WP035 00).

i. Install cover over splice point (A1-F18A()-WRM-000, WP060 00).

j. Install spot ties, as required, to support wire routing.

k. Install clamps if removed.

l. Close access door (A1-F18AC-LMM-010).

m. Apply electrical power (A1-F18AC-LMM-000).

n. On GND PWR control panel assembly (figure 3), set and hold 1 switch to A ON and 2 switch to B ON for three seconds.

o. On left and right Digital Display Indicator IP-1317() (LDDI and RDDI), set power switch to DAY or NIGHT as required and allow 2 minute warm-up. Adjust BRT and CONT controls for best display.

p. On RDDI, press MENU pushbutton switch. RDDI has menu display.

q. Press BIT pushbutton switch. RDDI has built-in test (BIT) control display.

r. If SDRS status message displays DEGD in the step below, read maintenance codes on Digital Display Indicator ID-2150/ASM-612. If a maintenance code exists, refer to table 2, Maintenance Action For System Maintenance Codes (A1-F18AC-580-200, WP003 00).

s. Press SDRS pushbutton switch. RDDI displays SDRS BIT status message IN TEST then GO.

t. On LDDI and RDDI set power switches to OFF.

u. Remove electrical power (A1-F18AC-LMM-000).

v. Make entry on Miscellaneous History Card OP-NAV 4790/25A which is part of aircraft logbook to note that both strain gages at this location have been replaced and primary strain gage is now connected to aircraft wiring.

w. Notify NAVAIRSYSCOM Structures Division Attn: Air 4.3.3.4 Bldg 2187, Ste 2340A, 48110 Shaw Rd, Unit 5, Patuxent River, MD, 20670-1906 of all strain gage reterminations and replacements via naval message. Info Type Commander and F/A-18 Fleet Support Team, Naval Aviation Depot, North Island, Code 4.3.3.3.0. Naval Message Pla: NAVAVNDEPOT North Island CA/4.1.1.0.1/F18FST.3/.

22. ILLUSTRATED PARTS BREAKDOWN.

23. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.

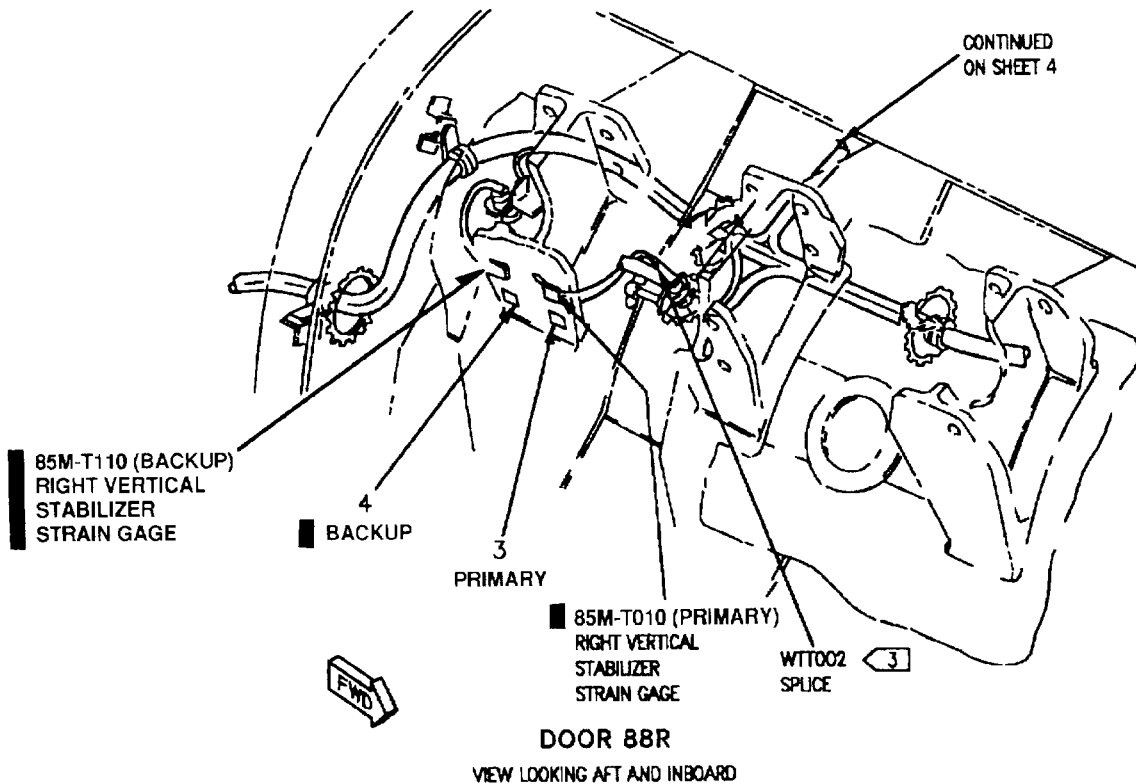
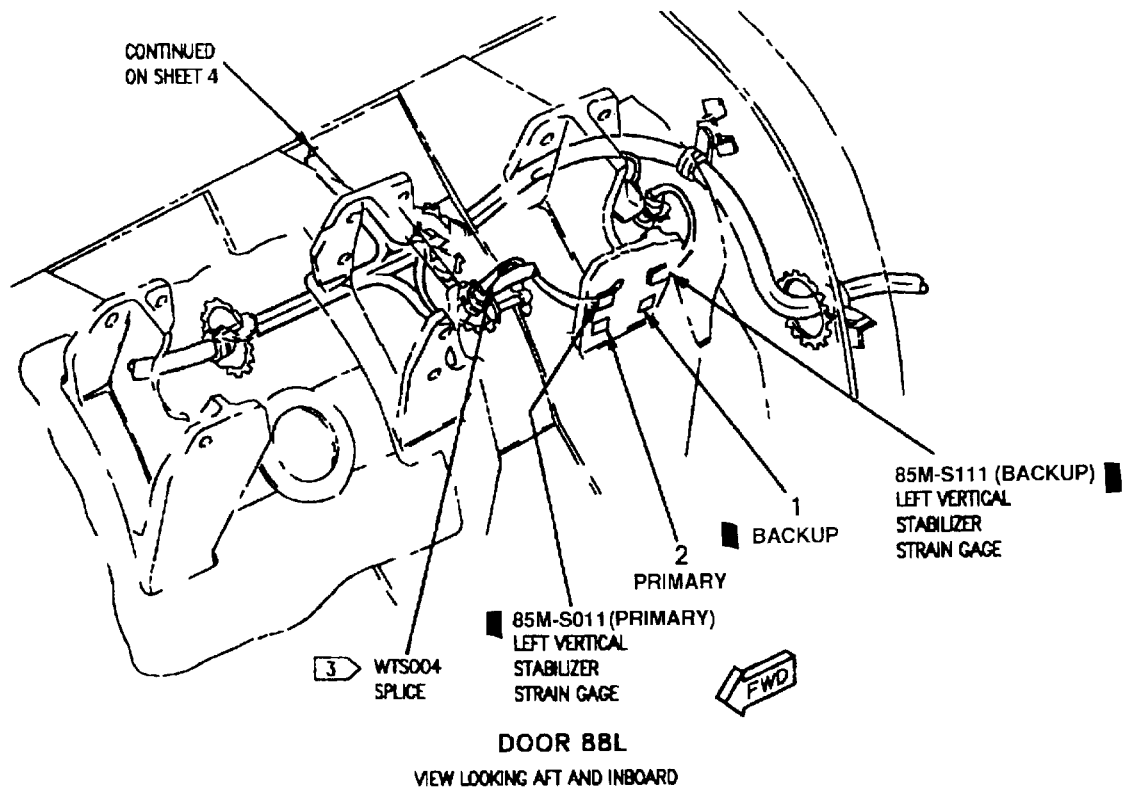


Figure 1. Strain Gages DTD2684 (Sheet 1)

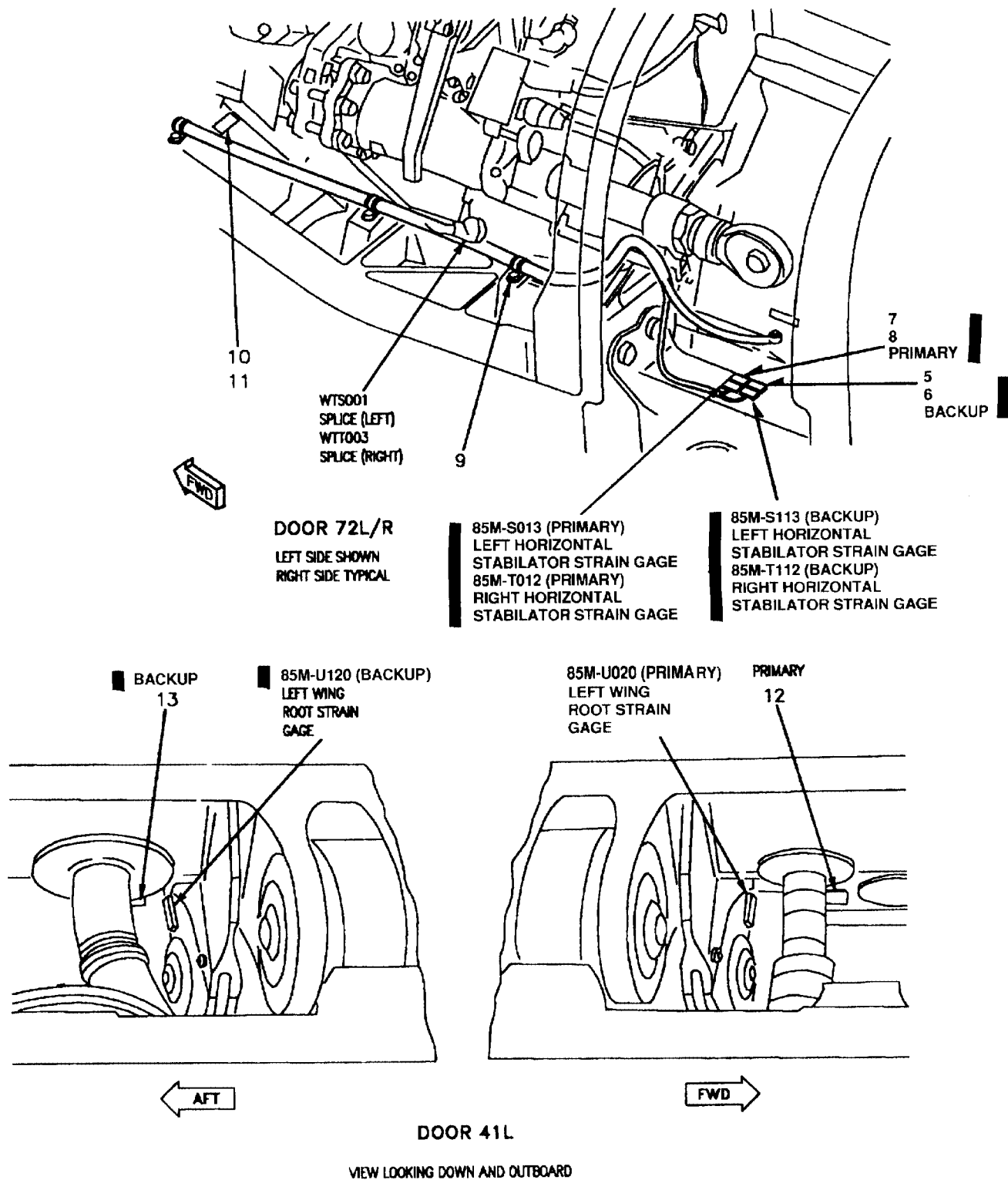


Figure 1. Strain Gages DTD2684 (Sheet 2)

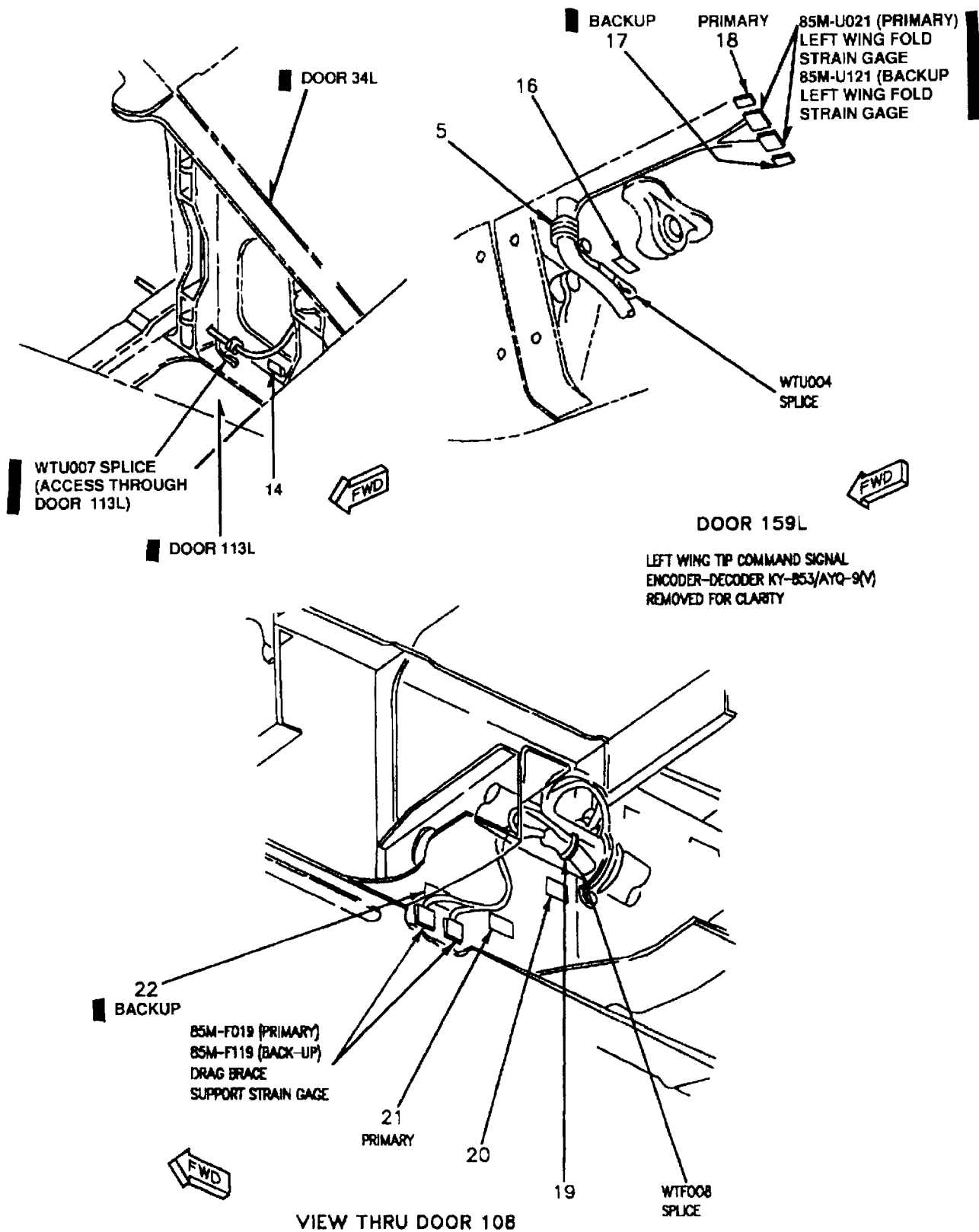


Figure 1. Strain Gages DTD2684 (Sheet 3)

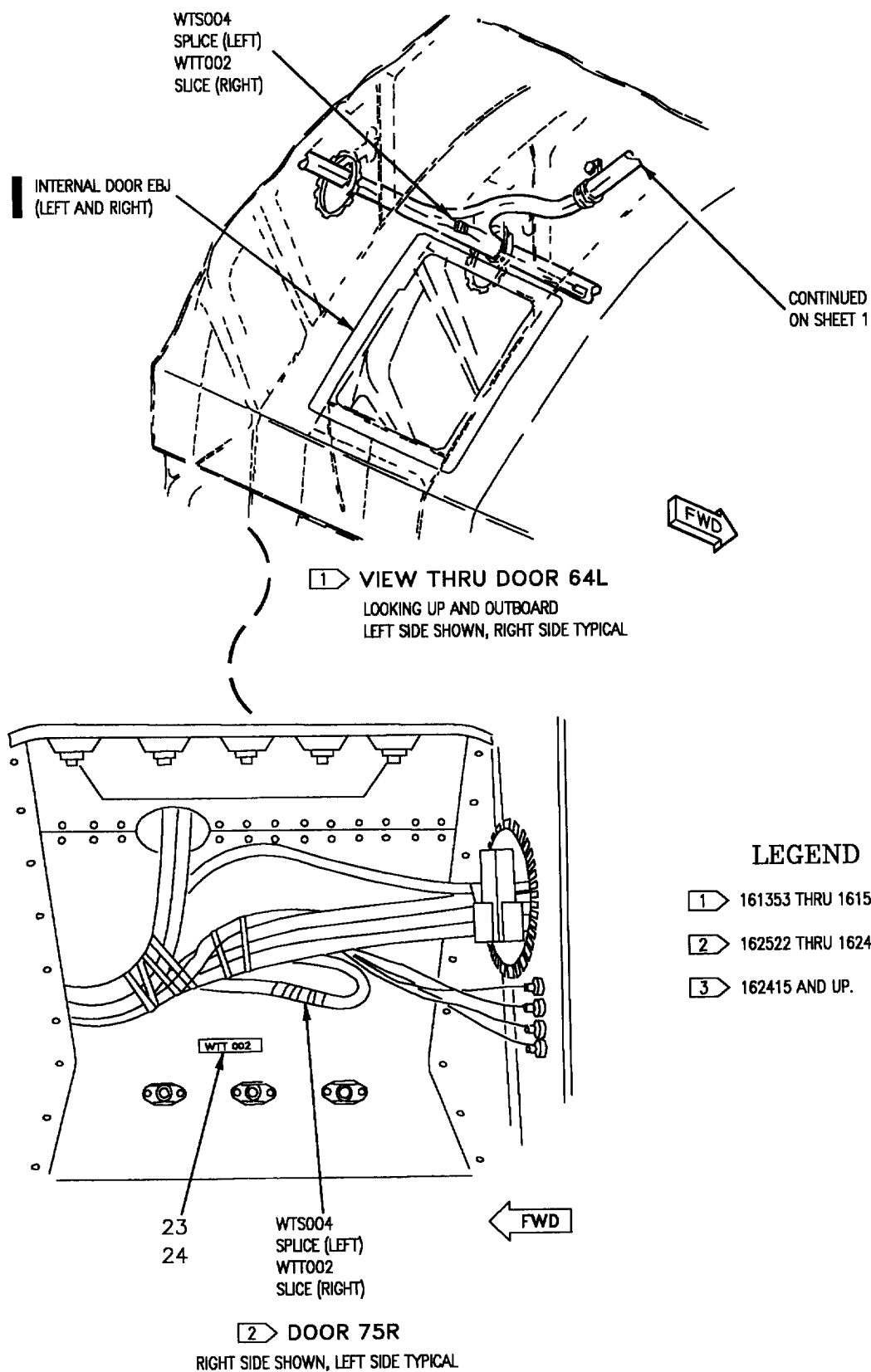


Figure 1. Strain Gages DTD2684 (Sheet 4)

| INDEX NO. | PART NUMBER | DESCRIPTION 1 2 3 4 5 6 7 | UNITS PER ASSY | USABLE ON CODE | SM&R CODE |
|--------------|----------------|---|----------------------|----------------------|--------------|
| | | | | | |
| 1 | 74A885621-2449 | STRAIN GAGES DTD2648 | | | |
| | | . MARKER, IDENTIFICATION - AVIONICS (LEFT SIDE) . . . | 1 | | MDOZZ |
| | | (SPARE) (76301) (FOR REF DES 85M-S011) | | | |
| 2 | 74A885621-2448 | . MARKER, IDENTIFICATION - AVIONICS (LEFT SIDE) . . . | 1 | | MDOZZ |
| | | (PRIMARY) (76301) (FOR REF DES 85M-S011) | | | |
| 3 | 74A885621-2450 | . MARKER, IDENTIFICATION - AVIONICS (RIGHT | 1 | | MDOZZ |
| | | SIDE) (PRIMARY) (76301) (FOR REF DES 85M-T010) | | | |
| 4 | 74A885621-2451 | . MARKER, IDENTIFICATION - AVIONICS (RIGHT | 1 | | MDOZZ |
| | | SIDE) (SPARE) (76301) (FOR REF DES 85M-T010) | | | |
| 5 | 74A885621-2453 | . MARKER, IDENTIFICATION - AVIONICS (LEFT SIDE) . . . | 1 | | MDOZZ |
| | | (SPARE) (76301) (FOR REF DES 85M-S013) | | | |
| 6 | 74A885621-2455 | . MARKER, IDENTIFICATION - AVIONICS (RIGHT | 1 | | MDOZZ |
| | | SIDE) (SPARE) (76301) (FOR REF DES 85M-T012) | | | |
| 7 | 74A885621-2452 | . MARKER, IDENTIFICATION - AVIONICS (LEFT SIDE) . . . | 1 | | MDOZZ |
| | | (PRIMARY) (76301) (FOR REF DES 85M-S013) | | | |
| 8 | 74A885621-2454 | . MARKER, IDENTIFICATION - AVIONICS (RIGHT | 1 | | MDOZZ |
| | | SIDE) (PRIMARY) (76301) (FOR REF DES 85M-T012) | | | |
| 9 | MS21919WDG6 | CLAMP | 4 | | PAOZZ |
| | NAS673V2 | BOLT (AP) | 1 | | PAOZZ |
| | AN960JD10L | WASHER (AP) | 1 | | PAOZZ |
| | A11144-7-3 | NUT, CLIP (AP) (72962) | 1 | * | PAOZZ |
| | | (MCDONNELL SPEC ST3M523C3M) | | | |
| | 130091 | NUT, CLIP (AP) (76530) | 1 | * | PAOZZ |
| | | (MCDONNELL SPEC ST3M523C3M) | | | |
| 10 | 74A885621-2174 | . MARKER, IDENTIFICATION - AVIONICS | 1 | | MDOZZ |
| | | (LEFT SIDE) (76301) (FOR REF DES WTS001) | | | |
| 11 | 74A885621-2178 | . MARKER, IDENTIFICATION - AVIONICS | 1 | | MDOZZ |
| | | (RIGHT SIDE) (76301) (FOR REF DES WTT003) | | | |
| 12 | 74A890601-2841 | . MARKER, IDENTIFICATION - ELECTRICAL | 1 | | MDOZZ |
| | | (PRIMARY) (76301) (FOR REF DES 85M-U020) | | | |
| 13 | 74A890601-2844 | . MARKER, IDENTIFICATION - ELECTRICAL | 1 | | MGOZZ |
| | | (SPARE) (76301) | | | |
| 14 | 74A890601-2242 | . MARKER, IDENTIFICATION - ELECTRICAL | 1 | | MDOZZ |
| | | (76301) (FOR REF DES WTU007) | | | |
| 15 | MS219191WDG # | CLAMP | 1 | | - |
| | NAS673V17 | BOLT (AP) | | | PAOZZ |
| | AN960JD10L | WASHER (AP) | 1 | | PAOZZ |
| | NAS42DD6-55 | SPACER (AP) | 1 | | PAOZZ |
| 16 | 74A890601-2241 | . MARKER, IDENTIFICATION - ELECTRICAL | 1 | | MGOZZ |
| | | (76301) (FOR REF DES WTU004) | | | |
| 17 | 74A890601-2844 | . MARKER, IDENTIFICATION - ELECTRICAL (SPARE) | 1 | | MGOZZ |
| 18 | 74A890601-2840 | . MARKER, IDENTIFICATION - ELECTRICAL | 1 | | MGOZZ |
| | | (PRIMARY) (76301) (FOR REF DES 85M-U021) | | | |
| 19 | MS21919WDG # | CLAMP | 1 | | - |
| | NAS673V # | BOLT (AP) | 1 | | - |
| | AN960JD10L | WASHER (AP) | 1 | | PAOZZ |
| 20 | 74A890601-2243 | . MARKER, IDENTIFICATION - ELECTRICAL | 1 | | MGOZZ |
| | | (76301) (FOR REF DES WTF008) | | | |

Figure 1. Strain Gages DTD2684 (Sheet 5)

| INDEX NO. | PART NUMBER | DESCRIPTION | | | | | | | UNITS PER ASSY | USABLE ON CODE | SM&R CODE |
|--------------|----------------|-------------|---|---|---|---|---|--|----------------------|----------------------|--------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | |
| 21 | 74A890601-2500 | . | | | | | | MARKER, IDENTIFICATION - ELECTRICAL (PRIMARY) (76301) (FOR REF DES 85M-F019) | 1 | | MGOZZ |
| 22 | 74A890601-2844 | . | | | | | | MARKER, IDENTIFICATION - ELECTRICAL (SPARE) (76301) | 1 | | MGOZZ |
| 23 | 74A885621-2174 | . | | | | | | MARKER, IDENTIFICATION, AVIONICS (LEFT SIDE) (76301) (FOR REF DES WTS004) | 1 | | MDOZZ |
| 24 | 74A885621-2177 | . | | | | | | MARKER, IDENTIFICATION, AVIONICS (RIGHT SIDE) (76301) (FOR REF DES WTT002) | 1 | | MDOZZ |

* ALTERNATE OR EQUIVALENT PARTS
(WP002 00).

LENGTH/SIZE TO BE DETERMINED AT
INSTALLATION.

Figure 1. Strain Gages DTD2684 (Sheet 6)

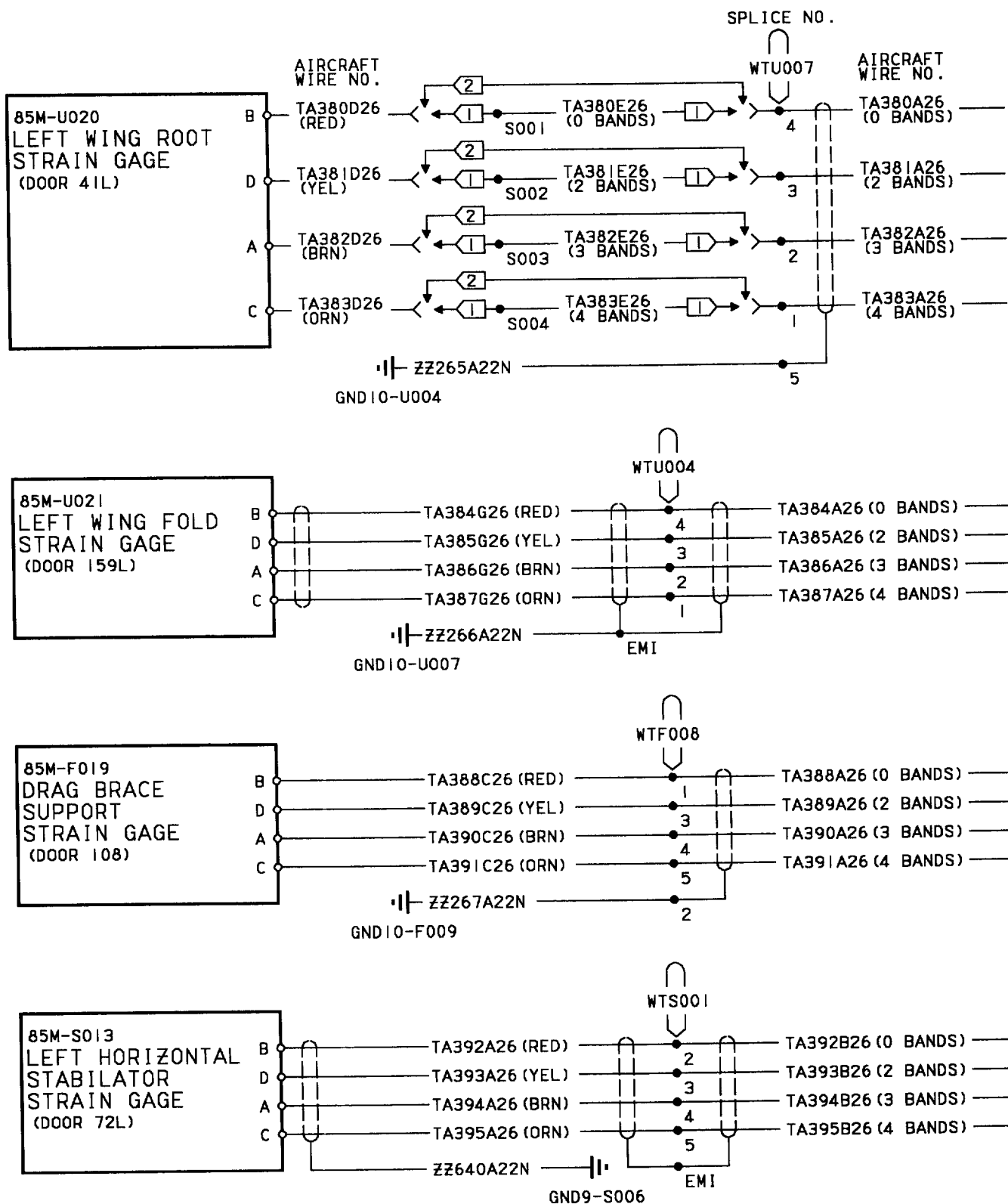
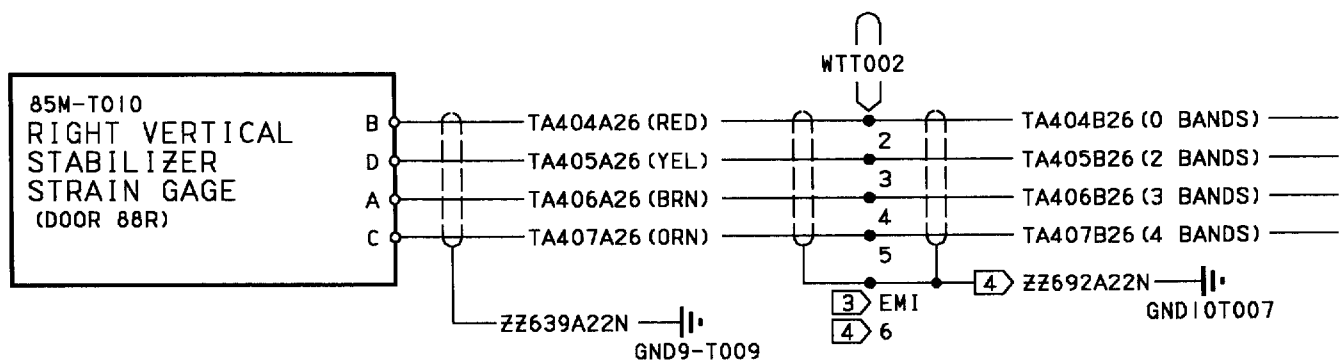
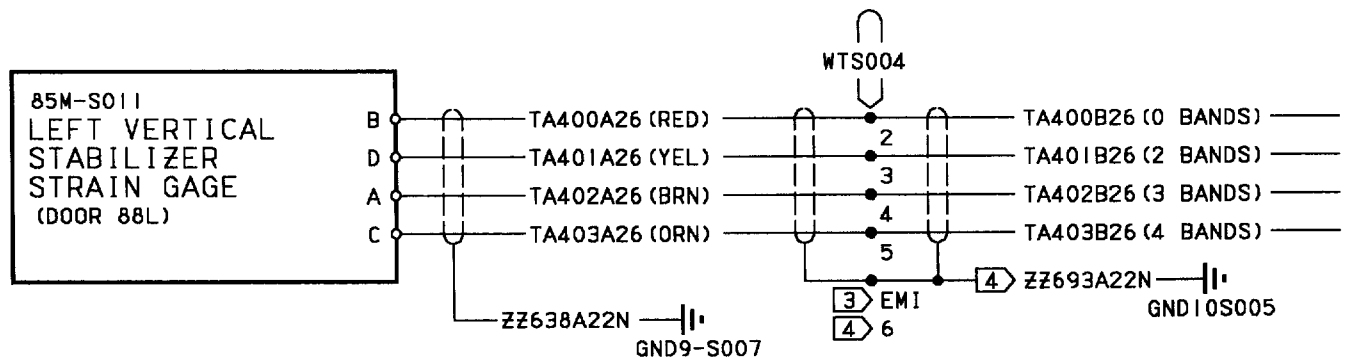
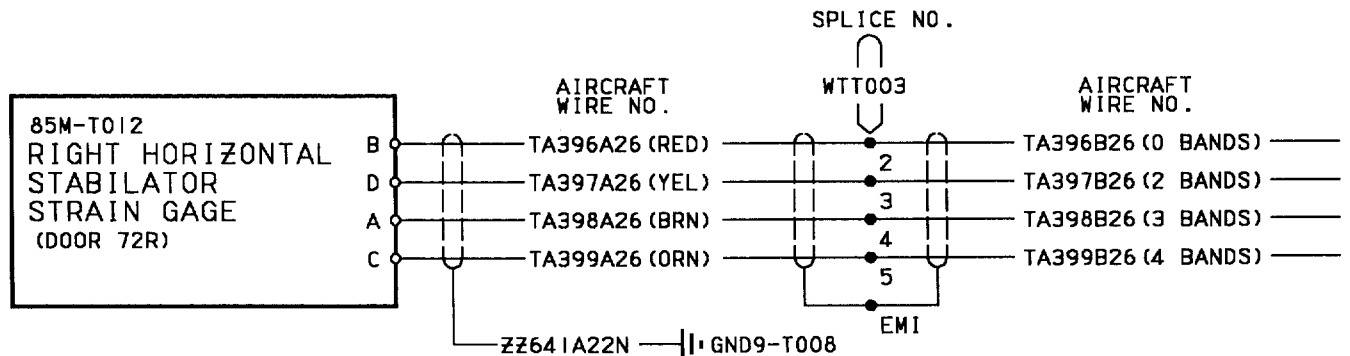


Figure 2. Strain Gages Electrical Hookup Schematic (Sheet 1)



LEGEND

- | | |
|----------------------|----------------------|
| ① 161353 THRU 161924 | ③ 161925 THRU 162414 |
| ② 161925 AND UP | ④ 162415 AND UP |

Figure 2. Strain Gages Electrical Hookup Schematic (Sheet 2)

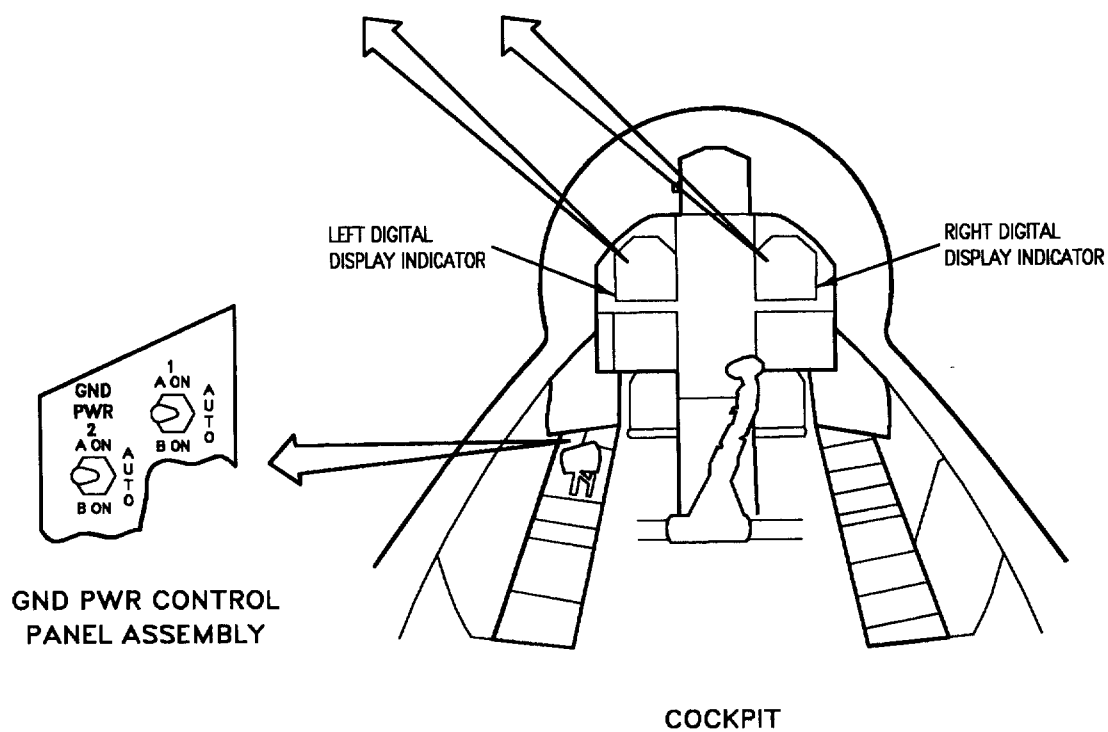
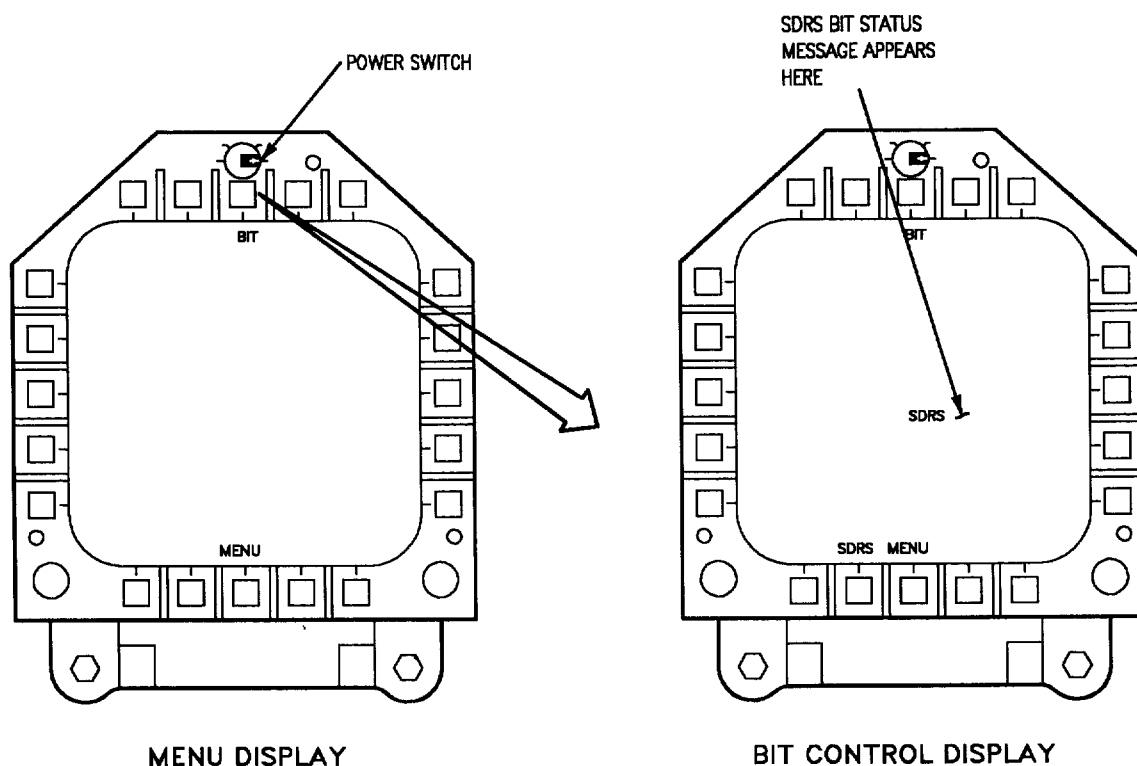


Figure 3. Control and Indicators

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

MISSION DATA LOADER

(85A-K503)

MISSION DATA LOADER MOUNT

(85A-K040)

MAINTENANCE STATUS DISPLAY AND RECORDING SYSTEM

EFFECTIVITY: F/A-18 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292 AND F/A-18 AFC 225

This WP supersedes WP007 00, dated 1 December 2000.

Reference Material

Line Maintenance Procedures A1-F18AC-LMM-000
 Line Maintenance Access Doors A1-F18AC-LMM-010
 The Naval Aviation Maintenance Program (NAMP) OPNAVINST 4790.2() Vol. II

Alphabetical Index

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| Materials Required | 2 |
| Removal | 2 |
| Support Equipment Required | 2 |
| Mission Data Loader Mount | 2 |
| Installation | 3 |
| Materials Required | 2 |
| Removal | 3 |
| Support Equipment Required | 2 |
| Mission Data Loader (85A-K503) and Mission Data Loader Mount (85A-K040), Figure 1 | 4 |

Record of Applicable Technical Directives

| Type/ Number | Date | Title and ECP No. | Date Incorp. | Remarks |
|-------------------|------|---|-----------------|---------|
| F/A-18 AFC 253 | - | US Naval Reserves A ⁺ Avionics Upgrade; Incorporation of (ECP MDA-F/A-18-0560R1) | 1 Dec 00 | - |
| F/A-18 AFC 292 | - | US Marine Corps Reserves A ⁺ Avionics Upgrade; Incorporation of (ECP MDA- F/A-18-0583) | 1 Dec 00 | - |
| F/A-18 AFC 225 | - | Avionics Multiplex Bus Upgrade; Modification of (ECP MDA-F/A-18-0529) | 1 Jun 02 | - |

1. MISSION DATA LOADER.**Support Equipment Required**

None

Materials Required

None

2. REMOVAL.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).



The mission data loader contains electrostatic sensitive devices (ESD) which can be damaged if special handling techniques are not used. Refer to OPNAVINST 4790.2() Vol. II.

- b. In cockpit, press the Mission Data Loader Release button to unlock the Mission Data Loader (2, figure 1) from the mount (1).

- c. Grasp Mission Data Loader and pull forward to remove the unit.

3. INSTALLATION.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).



The mission data loader contains electrostatic sensitive devices (ESD) which can be damaged if special handling techniques are not used. Refer to OPNAVINST 4790.2() Vol. II.

- b. Insert Mission Data Loader unit into mount (will only fit one way).

- c. Slide the Mission Data Loader into the mount until the latching/release mechanism locks securing the Mission Data Loader.

- d. Apply electrical power (A1-F18AC-LMM-000).

- e. On GND PWR control panel assembly (figure 2), set 1 switch to A ON, 2 switch to B ON and hold for 3 seconds.

- f. On left and right digital display indicator (LDDI and RDDI), set power switch to DAY or NIGHT and allow 2 minute warm-up. Adjust BRT and CONT for best display.

- g. On nose wheelwell digital display indicator, retract switch guard and press AMI BIT/RESET switch.

- h. On RDDI, press MENU push-button switch until BIT push-button switch legend appears.

- i. With DIGITAL DATA COMPUTER CONFIG/IDENT 12A AND UP (A1-F18AC-SCM-000), do sub-steps below:

- (1) Press BIT push-button switch. RDDI has BIT control display.

- (2) On BIT control display, press STATUS MONITOR push-button switch. RDDI has a STATUS MONITOR BIT display.

- (3) On STATUS MONITOR BIT display, press MU push-button switch. MU BIT status message displays IN TEST, within 10 seconds, GO is displayed.

- j. If MU BIT status message is not GO, read maintenance code display on nose wheelwell digital display indicator (A1-F18AC-LMM-000).

- k. Remove electrical power (A1-F18AC-LMM-000).

- l. If mission data loader was replaced for maintenance code 008, do nose wheelwell digital display indicator maintenance code display procedure (A1-F18AC-LMM-000). If maintenance code 008 exists, do table 2 (A1-F18AC-580-200, WP003 00).

4. MISSION DATA LOADER MOUNT.**Support Equipment Required**

None

Materials Required

None

5. REMOVAL.

a. Remove mission data loader, refer to MISSION DATA LOADER REMOVAL, this WP.

b. On F/A-18A, in upper equipment bay, or F/A-18B aft cockpit, disconnect connectors (3 and 6, figure 1) from rear of mission data loader mount (mount) (1).

c. Loosen captive screws in face of mount (1).

d. Pull mount (1) forward and remove mount.

6. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Position mount (1, figure 1) with front guide pins (5) to the inboard side.

c. On F/A-18A in upper equipment bay, or F/A-18B aft cockpit, connect connector (3) to J1 and connector (6) to J2.

d. Insert mount (1) and secure with captive screws.

e. If mission data loader is to be installed, refer to MISSION DATA LOADER INSTALLATION, this WP.

7. ILLUSTRATED PARTS BREAKDOWN.

8. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.

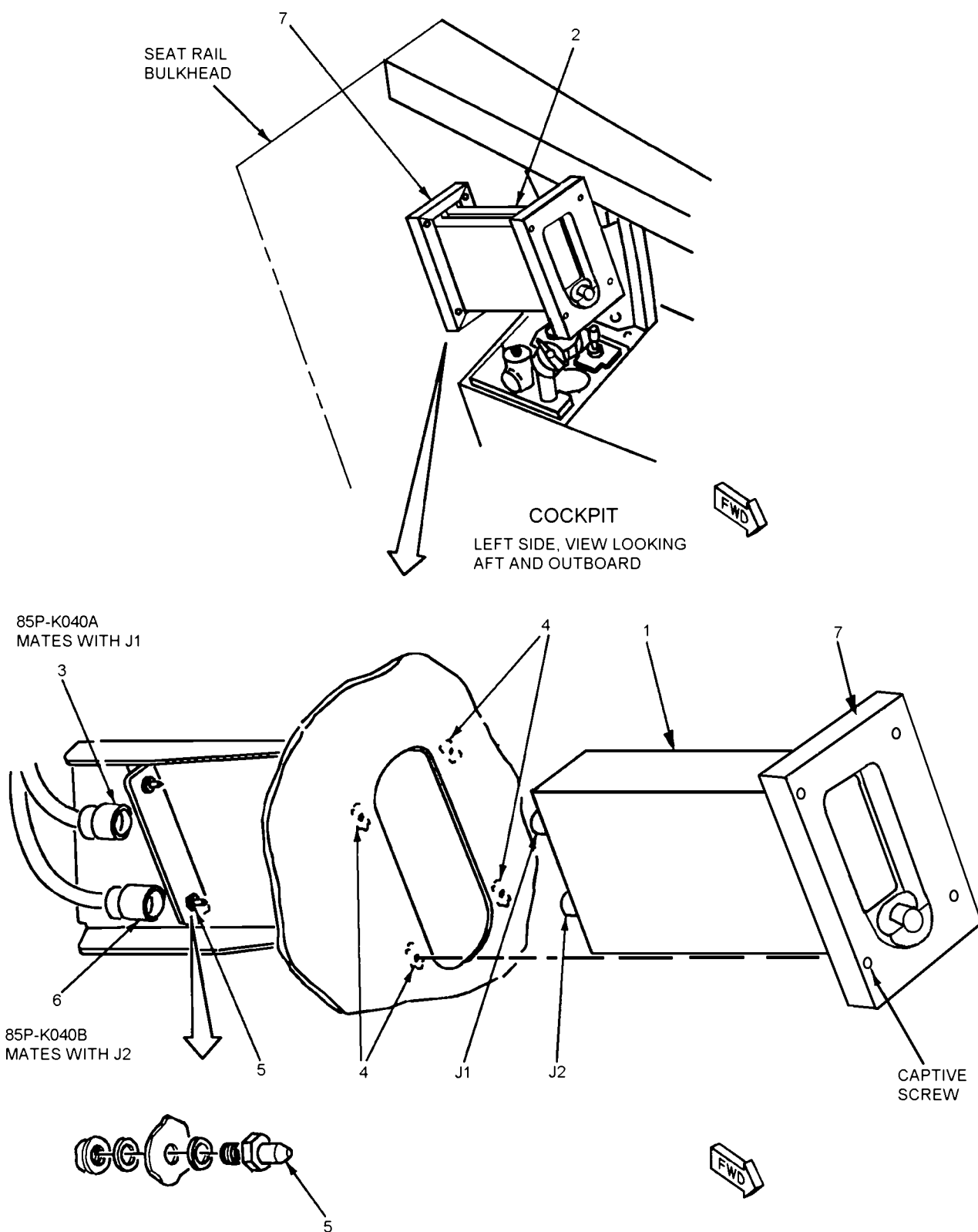


Figure 1. Mission Data Loader (85A-K503) and Mission Data Loader Mount (85A-K040) (Sheet 1)

| INDEX NO. | PART NUMBER | DESCRIPTION | | | | | | | UNITS PER ASSY | USABLE ON CODE | SM&R CODE |
|--|-------------------|--|--|---|---|---|---|---|----------------|----------------|-----------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | |
| | | MISSION DATA LOADER (85A-K503) AND | | | | | | | | | |
| | | MISSION DATA LOADER MOUNT (85A-K040) | | | | | | | | | |
| 1 | 5921000000 | . | MOUNT, MISSION DATA LOADER | | | | | | 1 | *A | PAODD |
| | CP-2092(P)/A | . | CP-2092(P)/A (MISSION DATA LOADER MOUNT) (86360) (MCDONNELL SPEC 74-870169-215) (85A-K040) | | | | | | | | |
| | CP-2092(P)/A | . | SEE ABOVE (80058) | | | | | | 1 | *A | PAODD |
| 2 | 5922000000-01 | † | MISSION DATA LOADER MU-1053/A | | | | | | 1 | *A | PAODD |
| | | | (MISSION DATA LOADER) (86360) (MCDONNELL SPEC 74-870169-219) (85A-K503) | | | | | | | | |
| | MU-1053/A | † | MISSION DATA LOADER MU-1053/A | | | | | | 1 | *A | PAODD |
| | | | (MISSION DATA LOADER) (80058) (USE UNTIL EXHAUSTED) | | | | | | | | |
| 3 | D38999 / 46WB35SN | . | CONNECTOR, PLUG (85P-K040A) | | | | | | 1 | | PAOZZ |
| 4 | F540339-3-4 | # | NUT, PLATE (MCDONNELL SPEC ST3M719C3M4) | | | | | | 4 | * | PAOZZ |
| | F12090-4-3 | . | SEE ABOVE (72962) | | | | | | 4 | * | PAOZZ |
| | NS202211-02-4 | . | SEE ABOVE (80539) | | | | | | 4 | * | PAOZZ |
| | F12090-4-3 | . | SEE ABOVE (27238) | | | | | | 4 | * | PAOZZ |
| | MS20426AD3 | # | RIVET (AP) | | | | | | 2 | | PAOZZ |
| 5 | 3M943C3-2-6 | . | PIN, SHOULDER, HEADLESS (97928) | | | | | | 2 | * | PAOZZ |
| | | | (MCDONNELL SPEC 3M943C3-2-6) | | | | | | | | |
| | MS21299C3 | . | WASHER (USE WITH INDEX 5) | | | | | | 2 | | PAOZZ |
| | NAS1149D0416J | . | WASHER (USE WITH INDEX 5) | | | | | | 2 | * | PAOZZ |
| | NAS1291C3M | . | NUT (USE WITH INDEX 5) | | | | | | 2 | | PAOZZ |
| 6 | D38999 / 46WB35SN | . | CONNECTOR, ELECTRICAL PLUG | | | | | | 1 | | PAOZZ |
| 7 | 5921001780 | . | MOUNTING KIT, SOLAR SHIELD (01359) | | | | | | 1 | * | PAOZZ |
| * ALTERNATE OR EQUIVALENT PARTS. (WP002 00) | | | | | | | | | | | |
| # LENGTH/SIZE TO BE DETERMINED AT INSTALLATION. | | | | | | | | | | | |
| † THIS UNIT IS A PROGRAMMABLE UNIT. PART NUMBER USED DEPENDS ON MISSION COMPUTER PROGRAM LOAD. REFER TO A1-F18AC-SCM-000. | | | | | | | | | | | |
| CODE USABLE ON MODEL | | | | | | | | | | | |
| A 162394 THRU 163175 AFTER F/A-18A/B | | | | | | | | | | | |
| F/A-18 AFC 253 OR | | | | | | | | | | | |
| F/A-18 AFC 292 AND | | | | | | | | | | | |
| F/A-18 AFC 225 | | | | | | | | | | | |

Figure 1. Mission Data Loader (85A-K503) and Mission Data Loader Mount (85A-K040) (Sheet 2)

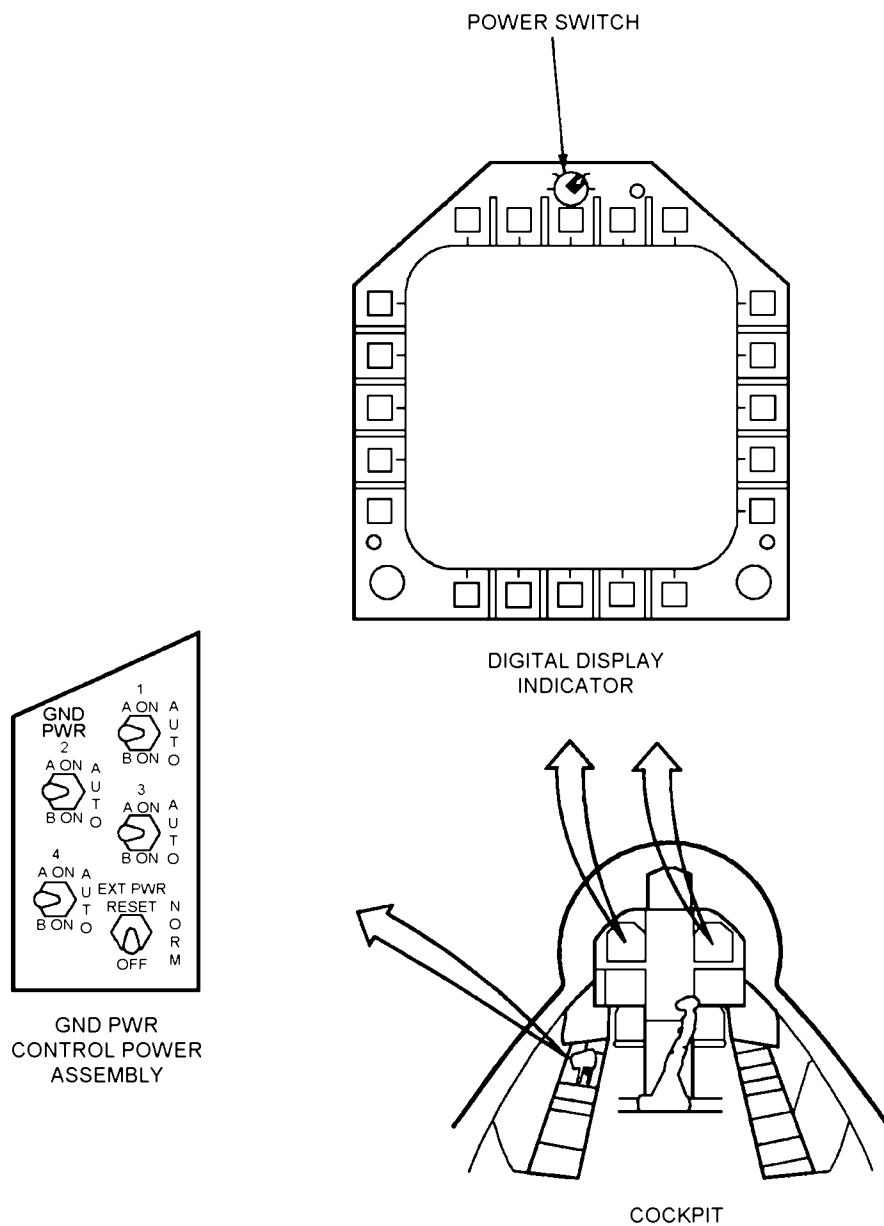
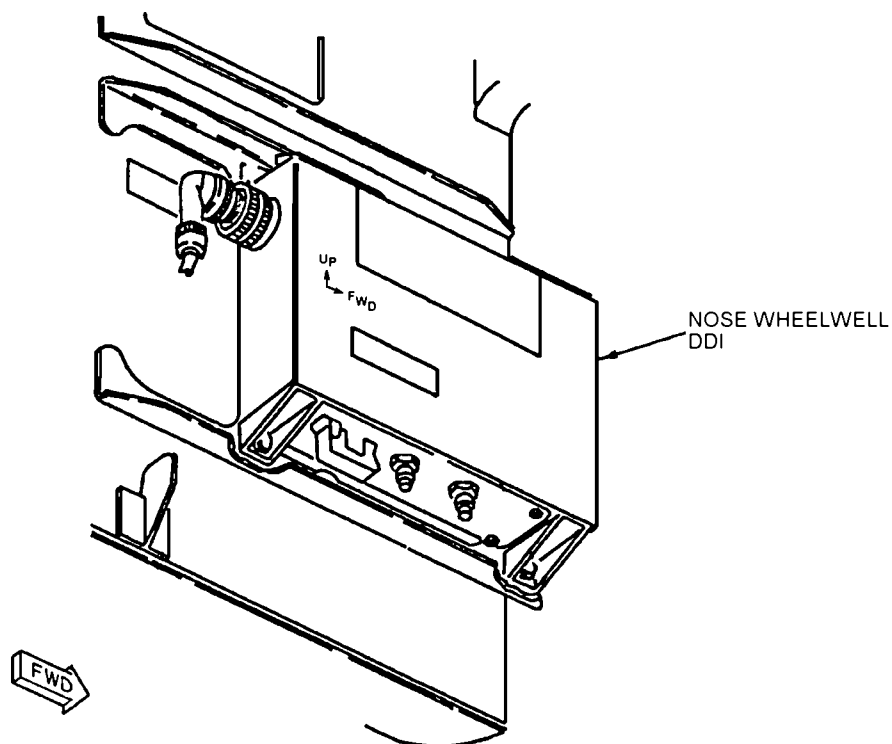
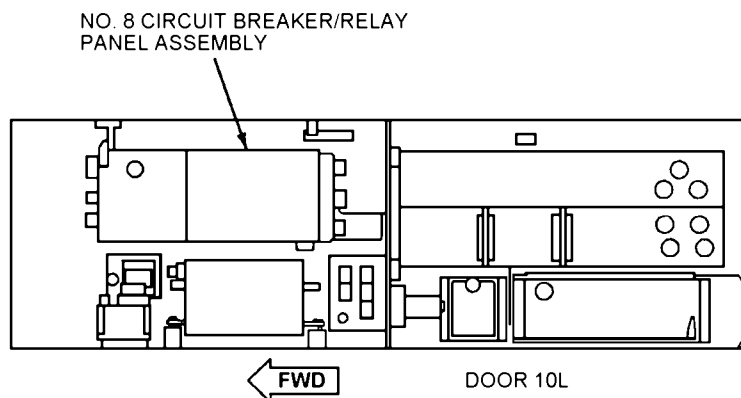


Figure 2. Controls and Indicators (Sheet 1)



NOSE WHEELWELL
(VIEW AFT LOOKING
FWD AND OUTBOARD)

Figure 2. Controls and Indicators (Sheet 2)

